AUTHOR INDEX TO VOLUME 52

A

Ablin, A. R., 299
Abrell, E., 167
Adelstein, E. R., 822
Aksoy, M., 160
Albahary, C., 367
Alroy, G., 198
Anderton, J., 707
Aoki, T. T., 474
Arnold, J. R., 525
Arnstein, A. R., 311
Axelrod, J. A., 87

B

Baer, L., 633
Bagley, J., 167
Baker, R. K., 809
Barrett, O., Jr., 533
Barrett-Connor, E., 242
Barrow, J. G., 653
Bartter, F. C., 444, 452, 556
Bauman, G. 19
Becker, E. L., 699
Benchimol, A., 467
Benke, P. J., 547
Bernfied, M. R., 299
Best, J. B., 707
Better, O. S., 198
Biglieri, E. G., 623
Blankenhorn, D. H., 499
Block, M., 311
Blomgren, S. E., 338
Bodmer, W. F., 1
Bonomo, G. M., 73
Bonomo, L., 73
Boxer, L. A., 279
Brackett, N. C., Jr., 267
Brandt, K., 93
Bravo, E. L., 610
Bridi, G. S., 267
Brunner, H. R., 633
Buchanan, K. D., 211
Buhler, F. R., 633
Buja, L. M., 425
Burch, G. E., 41

C

Cahill, G. F., Jr., 474
Cassar, J., 203
Cathcart, E. S., 93
Chaimovitz, C., 198
Chernay, P. R., 482
Chester, E. H., 738
Ch'ien, L. T., 289
Christiansen, P. A., 228
Coërs, C., 849
Cohen, A. S., 93
Coleman, T. G., 584
Colman, R. W., 679
Condemi, J. J., 338
Connon, J. J., 474
Conway, M. J., 399
Corder, M. P., 63
Cowley, A. W., Jr., 584
Cox, J., 452
Crane, M. G., 457
Cremer, M., 849
Croughs, R. J. M., 690

D

Dammacco, F., 73
Davidson, F. F., 754
Dawson, M. A., 406
Deftos, L., 556
Delea, C. S., 452, 556
DeNardo, G. L., 356, 362
Desnick, R. J., 763
Desser, K. B., 467
Deuchar, D. C., 349
DeVita, V. T., 63
Dewey, G. C., 533
Dickinson, L., 391
Dinçol, G., 160
Dinçol, K., 160
Dingman, J. F., 19
Duma, R. J., 411
Duston, H. P., 610
Dymock, I. W., 203

E

Ehrlich, G. E., 830
Ein, D., 141
Engstrom, P. F., 533
Epstein, C. J., 299
Erdem, Ş., 160
Escobar, M. R., 411

F

Falcon, P. W., 267
Felig, P., 474
Finnerty, F. A., Jr., 672
Flam, M., 841
Foote, F. W., Jr., 797
Frame, B., 311
Freed, E. R., 411
Freedman, R. J., 175
Freis, E. D., 664
Frost, H. M., 311

G

Gabrilove, J. L., 482
Garst, J. B., 175
Gartlan, J. L., Jr., 467
Ghahramani, A. R., 525
Gill, J. R., Jr., 444, 452
Glatstein, E., 356, 362
Glazier, J. B., 754
Glenner, G. G., 141
Glick, S. M., 25
Goldstein, N. P., 128
Goodman, J. R., 299
Gould, R. G., 148
Gralnick, H. R., 167
Greenberg, J. J., 492
Greene, R., 747
Gross, H., 421
Guinee, V. F., 283
Guyton, A. C., 584

H

Hackeng, W. H. L., 690
Hadady, M., 175
Halazun, J. F., 822
Hamilton, C. R., Jr., 322
Hansen, H. R., 712
Hanson, C. A., 311
Harris, J. J., 457
Hasson, J., 421
Haynes, H. A., 63
Hermans, P. E., 128
Herrick, N., 547
Herrmann, E. C., Jr., 102
Hildner, F. J., 525
Hirschhorn, K., 482
Hirschman, S. Z., 87
Ho, R. C. S., 391
Hollander, D., 211
Holman, H. R., 148
Horwitz, C. A., 797
Hsu, L. Y., 482
Huckabee, W. E., 474
Hull, C., 175
Hulsmans, H. A. M., 690
Hyatt, R. W., 822

I

Irvin, W. S., 148
Israël, D. E., 690

J

Jacobs, K. F., 841
Jensen, J., 499
Johns, V. J., Jr., 457

K

Kardon, N. B., 482
Karpatkin, M. B., 776
Karpatkin, S., 776
Kassirer, J. P., 187
Katz, W. A., 830
Kitabchi, A. E., 211
Klaniecki, T., 330
Kliman, B., 322

Knight, W. A., Jr., 712
Kominami, N., 391
Korn, M., 492
Krieger, D. T., 25
Krivit, W., 763
Kushner, J. H., 299
Kyner, J., 474

L

Laragh, J. H., 565, 633
Lee, J., 763
Levine, H. S., 421
Linden, D. A., 725
Lipton, M. J., 356, 362
Londero, A. T., 771
Lopez-Amor, E., 19
Lukens, J. N., 822

M

Macklem, P. T., 721
Mah-Poy, G. L., 841
Mandalenakis, N., 538
Manning, R. D., Jr., 584
Marano, R., 73
Marliss, E. B., 474
Mathur, D. P., 482
Mattern, W. D., 187
Matthews, D. N., 175
McCarthy, D. S., 747
McCullough, D. L., 395
McDevitt, H. O., 1
McDonald, C. D., 41
McElroy, R., 228
McFadden, E. R., Jr., 725
Meyers, B. R., 87
Milic-Emili, J., 747
Minna, J. D., 679
Moller, J., 763
Muller, S. A., 102
Murray, J. F., 754
Musa, B. U., 399
Myers, W. P. L., 797

N

Nagaya, H., 51
Neldner, K. H., 841
Nicastri, A., 809
Nicolis, F. L., 482
Niewoehner, D. E., 738
Norman, R. A., Jr., 584
Nosheny, S. Z., 830

O

Oakley, W. G., 203
Oliva, P. B., 817
Ooi, B. S., 538

P

Pak, C. Y. C., 556
Paulsen, C. A., 399
Pesce, A. J., 538
Picken, J. J., 738
Pickering, G., 570
Piel, C. F., 299
Pollak, V. E., 538
Popper, R. W., 9
Pyke, D. A., 203

R

Ramos, C. D., 771
Reichert, E. L., 391
Ritchie, R. F., 93
Rivers, J. B., 391
Rizk, M., 330
Robboy, S. J., 679
Roberts, W. C., 425
Robinson, M. J., 492
Rodnan, G. P., 330
Rose, H. G., 482
Ryan, S. C., 841
Rywlin, A. M., 492

S

Sabetghadam, R., 482
Sahud, M. A., 299
Sakai, F. J., 9
Samet, P., 525
Sapira, J. D., 330
Schambelan, M., 623
Scheel, K. W., 584
Schieb, E. T., 330
Schopman, W., 690
Scully, R. E., 322
Sealey, J. E., 633
Selzer, A., 9
Shaher, R. M., 349
Sharp, G. C., 148
Sharp, H. L., 763
Sherman, R. L., 699
Sieker, H. O., 51
Silverman, S., 356, 362
Siskind, G. W., 776
Skinner, S. L., 707
Snyder, P. D., Jr., 763
Sommer, L. S., 525
Sommers, S. C., 187
Spencer, R., 747
Sporn, I. N., 267
Still, W. J. S., 267
Stockigt, J. R., 623
Stoll, R. W., 211
Strick, N., 776
Susin, M., 699
Sweeley, C. C., 763
Szylman, P., 198

T

Tan, E. M., 148
Tarazi, R. C., 610
Tellerman-Toppet, N., 849
Terry, W. D., 141
Tignor, M. R., Jr., 395
Tobian, L., Jr., 595
Toews, C. J., 474

V

Vaid, A. K., 421
Vance, J. E., 211
Van Kley, H., 712
Vaughan, E. D., Jr., 633
Vaughan, J. H., 338

W

Waldmann, T. A., 444
Wallach, S., 809
Walsh, J. J., 41
Weksler, M. E., 699
Wellman, W. E., 128
Whitehead, J. D., 289
Whitfield, C. L., 289
Wiebe, R. A., 279
Wilber, J. A., 653
Williams, R., 203
Williams, R. H., 211
Winkelmann, R. K., 102
Wisenbaugh, P. E., 175
Wortsman, J., 556
Wright, F., 763

Y

Yokoyama, M., 279
Young, I., 830
Young, R. C., 63
Yu, R., 707

SUBJECT INDEX TO VOLUME 52

E = Editorial; CPC = Clinicopathologic Conference

A

Abdomen, acute, complicating diabetes mellitus and alcoholism (CPC), 379
Abdominal lymphoma and alpha chain disease, 73
Abscess, brain, and cyanotic congenital heart disease, 349
Acidosis
  lactic
    amino acid metabolism in, 474
  renal tubular
    and hyperparathyroidism, 809
    in hepatitis with hyperimmunoglobulinemia, 267
Adenomatosis, multiple endocrine, familial nesidioblastosis as manifestation of, 211
Adrenal mineralocorticoids as cause of hypertension, 623
Alanine levels in lactic acidosis, 474
Albumin metabolism in edema, 444
Alcoholism complicated by an acute abdomen (CPC), 379
Aldosterone
  in hypertension, 175, 457, 610, 623
  in hypertensive vascular disease, 633
Alkalosis, metabolic, in patient with severe alveolar hypoventilation, 817
Alpha chain disease and abdominal lymphoma, 73
Alpha methyldopa in hypertension, 664
Alveolar-arterial oxygen tension difference in healthy and diseased subjects, 754
Alveolar hypoventilation and metabolic alkalosis, 817
Amino acid metabolism in lactic acidosis, 474
Amylase levels in macroamylasemia, 712
Amyloid, immunoglobulin origin of (E), 141
Amyloidosis
  and immunoglobulins, 93
  renal, and multiple myeloma, 538
Anemia
  and infection, 242
  in lead poisoning, 289
Anergy in Hodgkin's disease, 63
Aneurysms, Charcot-Bouchard, in hypertension, 570
Angiocardiography in diagnosis of cardiac tumors, 9
Angiography, pulmonary, in delineation of left atrial myxoma, 525
Angiotensin in hypertensive vascular disease, 633
Antibody to extractable nuclear antigen in rheumatic disease syndrome, 148
Anticoagulant therapy in myocardial infarction (E), 421
Antidiuretic hormone secretion and plasma arginine vasopressin levels, 19
Antigen, extractable nuclear, associated with mixed connective tissue disease, 148
Antigens, histocompatibility (E), 1
Antinuclear factor, serum, associated with interstitial pulmonary fibrosis, 51
Antiplatelet antibody in idiopathic thrombocytopenic purpura, systemic lupus erythematosus and other clinical disorders, 776
Arginine vasopressin, plasma, and inappropriate antidiuretic hormone secretion, 19
Arterial disease in hypertension, 570
Arterial pressure
  in hypertensive encephalopathy, 672
  regulation in hypertension, 570, 584, 595
    dominance of kidneys in long-term regulation, 595
Arteriosclerosis, nodular, in hypertension, 570
Arthritis, rheumatoid, with vasculitis (CPC), 786
Atheroma in hypertension, 570
Atrial myxoma, left, hemodynamic and phonocardiographic features, 525
Autoimmune neutrophenia associated with hepatitis, 279
Azaguanine-resistance, manifestation of metabolic overproduction of uric acid, 547

B

Bacteremias, gram-negative, in multiple myeloma, 87
Basement membrane changes in blood vessels of diabetic patients (CPC), 115
Bed rest, prolonged, in treatment of idiopathic cardiomyopathy, 41
Behavior disturbances in lead poisoning, 289
Benzene poisoning and acute leukemia, 160
Blastomycosis, South American, clinical and mycologic study of, 771
Bleeding abnormalities in promyelocytic leukemia treated with heparin, 167
Blood flow velocity studied with Doppler ultrasonic flowmeter, 467
Blood vessels, basement membrane changes in, in diabetic patients (CPC), 115
Brain
  abscess in cyanotic congenital heart disease, 349
  accumulation of neutral glycosphingolipids with G_{M2} ganglioside in, 763

C

Cardiac chambers, blood flow velocity in, studied with Doppler ultrasonic flowmeter, 467
Cardiac disease with failure, angiocardiography in, 9
Cardiac fluoroscopy in dilineation of left atrial myxoma, 525
Cardiac output in hypertension, 595, 610
Cardiomyopathy, idiopathic, prolonged bed rest in treatment of, 41
Catecholamines in Raynaud's phenomenon secondary to scleroderma, 330
Central nervous system etiology of Cushing's syndrome, 25
Cerebral blood flow in hypertensive encephalopathy, 672
Charcot-Bouchard aneurysms in hypertension, 570
Children, lead poisoning in, 283
46,XX chromosome constitution in identical twins with Klinefelter's syndrome, 482
Cineangiography, left ventricular, in delineation of left atrial myxoma, 525
Cirrhosis, renal tubular sodium reabsorption in, 198

Clinicopathologic Conferences
Diabetes mellitus and alcoholism complicated by an acute abdomen, 379
Diabetes mellitus with hyperosmotic coma, 115
Reticulum cell sarcoma with pulmonary and gastrointestinal manifestations, 517
Tertiary hyperparathyroidism—does it exist, 254
Thyroid storm shortly after ^{131}I therapy of a toxic multinodular goiter, 786
Clomiphene citrate in induction of puberty and spermatogenesis, 322
Closing volume measurements as test for small airway disease, 747
Coagulation abnormalities in promyelocytic leukemia treated with heparin, 167
Cocktail glasses as cause of lead poisoning in family, 391
Coma, hyperosmotic, with diabetes mellitus (CPC), 115
Community screening programs in controlling hypertension, 653
Congenital heart disease, brain abscess in, 349
Connective tissue disease, mixed, 148
Coronary arterial thrombi in myocardial infarction, 425
Cortisol response in Cushing's syndrome, 25
Corticosteroids
in Cushing's syndrome, 25
in mixed connective tissue disease, 148
Corticosterone secretion in hypertension, 623
Cushing's syndrome
due to adrenocortical adenoma as part of polyglandular adenoma syndrome, 690
growth hormone and cortisol responsiveness in, 25

D

Deafness in hereditary macrothrombocytopathia, 299
Deoxycorticosterone secretion in hypertension, 623
Dermatoarthritis, lipoid, 830, 841
Diabetes in hemochromatosis, 203
Diabetes mellitus
complicated by an acute abdomen (CPC), 379
with hyperosmotic coma (CPC), 115
Diazoxide in hypertensive encephalopathy, 672
Disease, susceptibility to, histocompatibility antigens and immune responsiveness (E), 1
Disseminated intravascular coagulation, 679
Doppler ultrasonic flowmeter in blood flow velocity studies, 467

E

Edema, idiopathic, 444, 452
Editorials
Anticoagulant therapy in myocardial infarction; an overview of methodology, 421
Histocompatibility antigens, immune responsiveness and susceptibility to disease, 1
Lead poisoning, 283
Immunoglobulin origin of amyloid, 141
Obstruction in small airways—a challenge to medicine, 721
Electrolyte disturbances in steatorrhea related to quadriparesis with muscle spasms, 849
Encephalopathy
hypertensive, 672
lead, in adults, 289
Endocarditis, infective, at autopsy, 492
Endocrine adenomatosis and familial nesidioblastosis, 211
Endocrine studies in hypergonadotropic hypogonadism, 399
Endothelial cell injury in disseminated intravascular coagulation, 679
Erythematosus, lupus, induced by procainamide, 338
Erythropathy of occupational lead poisoning, 367
Extractable nuclear antigen, specific antibody to, associated with mixed connective tissue disease, 148

F

Familial hypercholesterolemia, inheritance of, 499
Familial nesidioblastosis as manifestation of multiple endocrine adenomatosis, 211
Fibrinolysis in disseminated intravascular coagulation, 679
Fibroid necrosis of small arteries and arterioles in hypertension, 570
Fibrosis, interstitial pulmonary, associated with serum antinuclear factor, 51
Fish tapeworm infestation and anemia, 242
Furosemide in hypertensive encephalopathy, 672

G

G_{M2} ganglioside with glycosphingolipids, accumulation in brain, 763
Gangliosidosis G_{M2}, 763
Gastrectomy followed by osteomalacia and secondary hyperparathyroidism, 556
Gastrointestinal manifestations in reticulum cell sarcoma (CPC), 517
Gigantism, pituitary, 399
Glomerulonephritis in hepatitis with hyperimmunoglobulinemia, 267
Glomerulosclerosis, diabetic (CPC), 379
Glucagonoma as part of polyglandular adenoma syndrome, 690
Glycosphingolipids with G_{M2} ganglioside, accumulation in brain, 763
Goiter, toxic multinodular, thyroid storm shortly after ^{131}I therapy of (CPC), 786
Gram-negative bacteremias in multiple myeloma, 87
Great vessels, blood flow velocity studies with Doppler ultrasonic flowmeter, 467
Growth hormone responsiveness in Cushing's syndrome, 25
Guanethidine in hypertension, 664

H

Hashimoto's thyroiditis, pancytopenia and thymoma, 406
Heart disease, congenital, and brain abscess, 349
Heart, primary tumors of, 9
Hematologic malignancies and herpes simplex virus infections, 102
Hemochromatosis and diabetes, pathogenesis, complications and treatment, 203
Hemodynamic characteristics of hypertension, 610
Hemodynamic features of left atrial myxoma, 525
Hemopoiesis and lead, 367
Hemorrhagic diathesis in promyelocytic leukemia treated with heparin, 167
Hemosiderosis, pulmonary, ultrastructure of lung in, 822

Heparin
for acute promyelocytic leukemia, 167
for disseminated intravascular coagulation, 679
Hepatic scintigraphy in Hodgkin's disease, 356
Hepatitis
associated with autoimmune neutropenia, 279
with hyperimmunoglobulinemia, glomerulonephritis and renal tubular acidosis, 267
Hereditary macrothrombocytopathia, nephritis and deafness, 299
Hereditary pancreatitis associated with portal vein thrombosis, 228
Herpes simplex infections in hematologic malignancies, 102
Histocompatibility antigens (E), 1
Hodgkin's disease
delayed hypersensitivity in, 63
evaluation of liver and spleen in, 356, 362
lipoid nephrosis in, 699
Hookworm infestation, anemia in, 242
Hormone
adrenal mineralocorticoid, in hypertension, 623
antidiuretic, inappropriate secretion and plasma arginine vasopressin, 19
growth, in Cushing's syndrome, 25
parathyroid, renal resistance to, 311
Hydralazine in hypertension, 664
Hypercholesterolemia, familial, 499
Hypergonadotropic hypogonadism, endocrine studies in, 399
Hyperimmunoglobulinemia in chronic active hepatitis, 267
Hyperosmotic coma with diabetes mellitus (CPC), 115
Hyperparathyroidism
and chronic renal failure (CPC), 254
secondary
and primary renal tubular acidosis, 809
pathogenesis of osteomalacia in, 556
Hyperplasia, islet cell, manifestation of multiple endocrine adenomatosis, 211
Hyperphosphatemia and hypocalcemia with osteitis fibrosa cystica, 311
Hypersensitivity, delayed, in Hodgkin's disease, 63
Hypertensive encephalopathy, 672
Hypertensive patient, evaluation and care of, 565
Hypertensive vascular disease, renin, angiotensin and aldosterone system, 633
Hypertension
a community problem, 653
aldosterone secretion in, 610
adrenal mineralocorticoids in, 623
alpha methyldopa in, 664
arterial disease in, 570
atheroma in, 570
Charcot-Bouchard aneurysms in, 570
definitions, natural histories and consequences, 570
essential, role of kidneys in, 584, 595
fibrinoid necrosis of small arteries and arterioles in, 570
guanethidine in, 664
hemodynamic characteristics of, 610
hydralazine in, 664
hyporeninemic, 457
intravascular volume in, 610
malignant, oliguric renal failure in, 187
neural circulatory activity in, 610
Hypertension
nodular arteriosclerosis in, 570
physiologic characteristics of, 610
regulation of arterial pressure in, 570, 584, 595
renin, aldosterone and sodium, 175
renin production in, 610
reserpine in, 664
role of adrenal mineralocorticoid hormones in, 623
symposium on, 565–678
treatment of, 664
viewpoint concerning enigma of, 594
Hypoalbuminemia
in unexplained edema, 444
pathogenesis of edema in patients with, 452
Hypocalcemia with osteitis fibrosa cystica, 311
Hypoglycemia, insulin-induced, growth hormone and cortisol response to, 25
Hypogonadism, hypergonadotropic, endocrine studies in, 399
Hypogonadotropinism in Prader-Willi syndrome, 322
Hypoparathyroidism associated with secondary malignant tumors of parathyroid glands, 797
Hyporeninemic hypertension, 457
Hypoventilation, severe alveolar, and metabolic alkalosis, 817
Hypoxemia due to venoarterial shunting in pneumonia, 754

I

^{131}I therapy of toxic multinodular goiter followed by thyroid storm (CPC), 786
Idiopathic cardiomyopathy treated by prolonged bed rest, 41
Idiopathic edema, 444, 452
Idoxuridine ointment in herpes simplex infections, 102
Immune responsiveness, histocompatibility antigens and susceptibility to disease (E), 1
Immunoglobulin origin of amyloid (E), 141
Immunoglobulins and amyloidosis, 93
Immunologic responsiveness, impaired, relation to vaccinia necrosum, 411
Infarction
acute myocardial, with thrombosis of superior mesenteric artery (CPC), 379
fatal acute myocardial, coronary arterial thrombi in, 425
myocardial, anticoagulant therapy in (E), 421
Infection
and anemia, 242
cause of death in infective endocarditis, 492
in multiple myeloma, 87
Insulin-induced hypoglycemia, growth hormone and cortisol response to, 25
Interstitial pulmonary fibrosis associated with serum antinuclear factor, 51
Intestine, lymphomatous involvement of, and alpha chain disease, 73
Intravascular volume in hypertension, 610
Iodine therapy, radioactive, of toxic multinodular goiter complicated by thyroid storm (CPC), 786
Islet cell hyperplasia, manifestation of multiple endocrine adenomatosis, 211

K

Kidneys
role in essential hypertension, 584, 595
role in arterial pressure regulation, 584
Klinefelter's syndrome in identical twins with 46,XX chromosome constitution, 482

L

Lactic acidosis, amino acid metabolism in, 474
Lead
and hemopoiesis, 367
encephalopathy in adults, 289
poisoning (E), 283
due to moonshine whiskey, 289
due to cocktail glasses, 391
occupational, mechanism and consequences of, 367
Leukemia
due to chronic benzene exposure, occupational hazard in shoemakers, 160
histocompatibility antigens in (E), 1
promyelocytic, treated with heparin, 167
Lipoid dermatoarthritis, 830, 841
Lipoid nephrosis in Hodgkin's disease, 699
Liver, evaluation in Hodgkin's disease, 356, 362
Lung
disease, obstructive, alveolar-arterial oxygen tension difference in, 754
ultrastructure in idiopathic pulmonary hemosiderosis, 822
Lupus erythematosus
procainamide-induced, 338
systemic, antiplatelet antibody in, 776
Lymphoma
abdominal, and alpha chain disease, 73
malignant (CPC), 517
Lymphoproliferative disorders, amyloidosis and immunoglobulins, 93

M

Macroamylasemia due to binding by protein, 712
Macrothrombocytopathia, hereditary, associated with nephritis and deafness, 299
Meningitis, Mollaret's, 128
Mesenteric artery, superior, thrombosis of (CPC), 379
Metabolic alkalosis in patient with severe alveolar hypoventilation, 817
Mitral valve disease, angiocardiography in, 9
Mixed connective tissue disease associated with specific antibody to extractable nuclear antigen, 148
Mollaret's meningitis, 128
Moonshine whiskey as cause of lead poisoning, 289
Muscle spasms with acute quadriparesis in steatorrhea, 849
Mycobacterium Kansasii infection, disseminated, and pancytopenia, 533
Myeloma, multiple
current patterns of infection in, 87
with massive proteinuria and terminal renal failure, 538
Myocardial infarction
acute, with thrombosis of superior mesenteric artery (CPC), 379
anticoagulant therapy in (E), 421
Myocardial infarction
fatal acute, coronary arterial thrombi in, 425
Myxoma
angiocardiography in diagnosis, 9
left atrial, hemodynamic and phonocardiographic features, 525

N

Necrosis, fibroid, of small arteries and arterioles in hypertension, 570
Nephritis in hereditary macrothrombocytopathia, 299
Nephrosclerosis, malignant, and oliguric acute renal failure, 187
Nephrotic syndrome in Hodgkin's disease, 699
Nesidioblastosis, familial, manifestation of multiple endocrine adenomatosis, 211
Neural circulatory activity in hypertension, 610
Neutropenia, autoimmune, associated with hepatitis, 279
New York City, lead poisoning in, 283

O

Obstruction in small airways (E), 721
Obstructive lung disease, alveolar-arterial oxygen tension difference in, 754
Oliguric renal failure in malignant hypertension, 187
Osteitis fibrosa cystica with hypocalcemia and hyperphosphatemia, 311
Osteomalacia in secondary hyperparathyroidism after gastrectomy, 556

P

Pancreatic tumor in polyglandular adenoma syndrome, 690
Pancreatitis, hereditary, 228
Pancytopenia
associated with disseminated Mycobacterium kansasii infection, 533
thymoma and Hashimoto's thyroiditis, 406
Paracoccidioidomycosis, clinical and mycologic study, 711
Parathyroid glands, secondary malignant tumors of, 797
Parathyroid hormone, renal resistance to, with osteitis fibrosa, 311
Perforation of lymphomatous lesion following chemotherapy (CPC), 517
Pericarditis in tertiary hyperparathyroidism (CPC), 254
Phonocardiographic features of left atrial myxoma, 525
Piromen, growth hormone and cortisol response to, in Cushing's disease, 25
Pitressin, growth hormone and cortisol response to, in Cushing's disease, 25
Pituitary gigantism, endocrine studies in, 399
Plasma arginine vasopressin in syndrome of inappropriate antidiuretic hormone secretion, 19
Plasma renin activity in hypertension, 457, 633
Pneumonia, hypoxemia due to venoarterial shunting in, 754
Poisoning, lead (E), 283
due to cocktail glasses, 391
due to moonshine whiskey, 289
mechanism and consequences of, 367
Polyglandular adenoma syndrome, glucagonoma as part of, 690
Portal vein thrombosis in hereditary pancreatitis, 228

Potassium supplements in treatment of hepatitis with hyperimmunoglobulinemia, 267
Prader-Willi syndrome and hypogonadotropinism, 322
Prednisone therapy of hepatitis with hyperimmunoglobulinemia, 267
Primary aldosteronism in hypertension, 457
Procainamide-induced lupus erythematosus, 338
Promyelocytic leukemia, heparin treatment for, 167
Protein, macroamylasemia due to binding by, 712
Proteinuria, massive, in multiple myeloma, 538
Pseudohypohyperparathyroidism, 311
Puberty and spermatogenesis induced by clomiphene citrate, 322
Pulmonary angiography in delineation of left atrial myxoma, 525
Pulmonary fibrosis, interstitial, associated with serum antinuclear factor, 51
Pulmonary hemosiderosis, idiopathic, ultrastructure of lung in, 822
Pulmonary manifestations in reticulum cell sarcoma (CPC), 517
Purpura, idiopathic thrombocytopenic, antiplatelet antibody in, 776
Pyelonephritis, xanthogranulomatous, 395

Q

Quadriparesis, acute, with muscle spasms in steatorrhea, 849

R

Radiation therapy for lipoid nephrosis in Hodgkin's disease, 699
Radioactive iodine therapy of toxic multinodular goiter complicated by thyroid storm (CPC), 786
Raynaud's phenomenon and endogenous catecholamines, 330
Red cell or platelet injury, cause of disseminated intravascular coagulation, 679
Renal amyloidosis in multiple myeloma, 538
Renal disease in chronic active hepatitis, 267
Renal failure
  chronic, and hyperparathyroidism (CPC), 254
  in multiple myeloma, 538
  oliguric, in malignant hypertension, 187
Renal resistance to parathyroid hormone, 311
Renal tubular acidosis
  in hepatitis with hyperimmunoglobulinemia, 267
  primary, and secondary hyperparathyroidism, 809
Renal tubular sodium reabsorption in cirrhosis, 198
Renin
  aldosterone, sodium and hypertension, 175
  in anephric man, 707
  in hypertensive vascular disease, 633
  production in hypertension, 610
Reserpine
  in hypertension, 664
  in hypertensive encephalopathy, 672
Respiratory tract infections, effect upon small airways, 738
Reticulohistiocytosis, multicentric, 830, 841
  with electron microscopic study skin lesions, 841
Reticulum cell sarcoma with pulmonary and gastrointestinal manifestations (CPC), 517
Rheumatic disease syndrome associated with specific antibody to extractable nuclear antigen, 148
Rheumatoid arthritis, long-standing, with vasculitis (CPC), 786

S

Sandhoff's disease, 763
Santa Maria, RS, Brazil, study of paracoccidioidomycosis in, 771
Sarcoma, reticulum, with pulmonary and gastrointestinal manifestations (CPC), 517
Scintigraphy, hepatic and splenic in Hodgkin's disease, 356, 362
Scleroderma, catecholamine studies in Raynaud's phenomenon secondary to, 330
Sclerosis, progressive systemic, catecholamine studies in Raynaud's phenomenon secondary to, 330
Screening tests for disseminated intravascular coagulation, 679
Septicemia (CPC), 254
Serum amylase levels in macroamylasemia, 712
Serum antinuclear factor associated with interstitial pulmonary fibrosis, 51
Serum renin concentration in essential hypertension, 175
Shoemakers, occurrence of acute leukemia due to chronic benzene exposure, 160
Shunting, venoarterial, in pneumonia as cause of hypoxemia, 754
Skin lesions, electron microscopic study of, in multicentric reticulohistiocytosis, 841
Small airway disease
  closing volume measurement as test for early detection, 747
  spirographic manifestation of, 725
Small airway obstruction (E), 721
Small airways, effects of viral infections of upper respiratory tract upon, 738
Small intestine, ulceration of, and perforation of lymphomatous lesion following chemotherapy (CPC), 517
Sodium
  reabsorption, renal tubular, in cirrhosis, 198
  renin, aldosterone and hypertension, 175
South American blastomycosis, study of, 771
Spermatogenesis induced by clomiphene citrate, 322
Spirographic manifestation of small airway disease, 725
Spleen, evaluation in Hodgkin's disease, 356, 362
Splenic scintigraphy in Hodgkin's disease, 362
Steatorrhea related to acute quadriparesis with muscle spasms, 849
Sympathetic nervous system, role in hypertension, 595
Symposium on hypertension: mechanisms and management, 565–678
  A viewpoint concerning the enigma of hypertension, 595
  Adrenal mineralocorticoids causing hypertension, 623
  Arterial pressure regulation; overriding dominance of the kidneys in long-term regulation and in hypertension, 584
  Evaluation and care of the hypertensive patient, 565
  Hypertension—a community problem, 653
  Hypertension, definitions, natural histories and consequences, 570
  Hypertensive encephalopathy, 672

Symposium on hypertension: mechanisms and management, 565–678
Physiologic characteristics of hypertension, 610
Renin, angiotensin and aldosterone system in pathogenesis and management of hypertensive vascular disease, 633
The treatment of hypertension; why, when and how, 664

T

Tay-Sachs disease, Sandhoff's disease as variant of, 763
Tertiary hyperparathyroidism (CPC), 254
Thyroid storm shortly after ^{131}I therapy of toxic multinodular goiter (CPC), 786
Thyroiditis, Hashimoto's, pancytopenia and thymoma, 406
Thrombi, coronary arterial, in fatal acute myocardial infarction, 425
Thrombin in disseminated intravascular coagulation, 679
Thrombocytopathia, renal disease and deafness, 299
Thrombocytopenic purpura, idiopathic, antiplatelet antibody in, 776
Thrombosis
of superior mesenteric artery and myocardial infarction (CPC), 379
portal vein, in hereditary pancreatitis, 228
Thymoma, pancytopenia and Hashimoto's thyroiditis, 406
Thyroid storm complicating radioactive iodine therapy of toxic multinodular goiter (CPC), 786
Tissue injury in disseminated intravascular coagulation, 679
Transposition of great vessels associated with brain abscess, 349
Tubular sodium reabsorption in cirrhosis, 198
Tumors
heart, primary, 9
Tumors
manifestation of multiple endocrine adenomatosis, 211
pancreatic, in polyglandular adenoma syndrome, 690
secondary malignant, of parathyroid glands, 797
Twins, Klinefelter's syndrome in, with 46,XX chromosome constitution, 482

U

Ulceration of small intestine and perforation of lymphomatous lesion following chemotherapy (CPC), 517
Ultrastructure of lung in idiopathic pulmonary hemosiderosis, 822
Uric acid, metabolic overproduction of, manifested by azaguanine-resistance, 547
Urinary aldosterone and sodium excretion in essential hypertension, 175

V

Vaccinia necrosum, relation to impaired immunologic responsiveness, 411
Vasculitis with long-standing rheumatoid arthritis (CPC), 786
Venoarterial shunting, hypoxemia due to, 754
Viral infections of upper respiratory tract, effects upon small airways, 738

W

Whiskey, moonshine, lead poisoning due to, 289

X

Xanthogranulomatous pyelonephritis, 395

The American Journal of Medicine

VOLUME 52

JANUARY—JUNE 1972

Editor
ARTHUR J. ANTENUCCI, M.D.
Consultant, Medicine
ROOSEVELT HOSPITAL
New York, New York

Managing Editor
HELENA B. MANNION

Assistant Managing Editor
ROCHELLE BALA

Publisher
LOUIS F. LE JACQ

Associate Editor
WILLIAM J. GRACE, M.D.
Director, Department of Medicine
ST. VINCENT'S HOSPITAL MEDICAL CENTER
of New York, New York
Professor of Clinical Medicine
NEW YORK UNIVERSITY-BELLEVUE MEDICAL CENTER
New York, New York

Editor Emeritus
ALEXANDER B. GUTMAN, M.D.
Emeritus Professor of Medicine
THE MOUNT SINAI SCHOOL OF MEDICINE
of the City University of New York, New York

ADVISORY BOARD

ALEXANDER G. BEARN, M.D.
Professor of Medicine
CORNELL UNIVERSITY MEDICAL COLLEGE
New York, N.Y.

NICHOLAS P. CHRISTY, M.D.
Director, Medical Service
ROOSEVELT HOSPITAL
New York, N.Y.

VICTOR A. McKUSICK, M.D.
Professor of Medicine
THE JOHNS HOPKINS UNIVERSITY-SCHOOL OF MEDICINE
Baltimore, Md.

CARL V. MOORE, M.D.
Professor of Medicine
WASHINGTON UNIVERSITY, SCHOOL OF MEDICINE
St. Louis, Mo.

CHARLES A. RAGAN, M.D.
Chairman, Department of Medicine
COLLEGE OF PHYSICIANS & SURGEONS OF COLUMBIA UNIVERSITY
New York, N.Y.

DeWITT STETTEN, JR., M.D.
Director
NATIONAL INSTITUTE OF GENERAL MEDICAL SCIENCES
Bethesda, Md.

GEORGE W. THORN, M.D.
Professor of Medicine
HARVARD MEDICAL SCHOOL
Boston, Mass.

CONSULTING EDITORS

J. A. ABILDSKOV, M.D., Salt Lake City, Utah
ROBERT L. ABRAMS, M.D., Brooklyn, N.Y.
HELEN M. ANDERSON, M.D., New York, N.Y.
RONALD A. ARKY, M.D., Boston, Mass.
STEPHEN M. AYRES, M.D., New York, N.Y.
MORTIMER E. BADER, M.D., New York, N.Y.
RICHARD A. BADER, M.D., New York, N.Y.
FREDERIC C. BARTTER, M.D., Bethesda, Md.
E. LOVELL BECKER, M.D., New York, N.Y.
G. E. BURCH, M.D., New Orleans, La.
CHARLES L. CHRISTIAN, M.D., New York, N.Y.
RICHARD S. CRAMPTON, M.D., Charlottesville, Va.
ANTHONY N. DAMATO, M.D., Staten Island, N.Y.
CHARLES S. DAVIDSON, M.D., Boston, Mass.
VINCENT P. DOLE, M.D., New York, N.Y.
ROBERT M. DONALDSON, JR., M.D., Boston, Mass.
CHARLES FISCH, M.D., Indianapolis, Ind.
DONALD S. FREDRICKSON, M.D., Bethesda, Md.
NANCY E. GARY, M.D., New York, N.Y.
RICHARD GORLIN, M.D., Boston, Mass.
DAVID GROB, M.D., Brooklyn, N.Y.
PHILIP H. HENNEMAN, M.D., New York, N.Y.
HALSTEAD HOLMAN, M.D., Stanford, Calif.
A. GREGORY JAMESON, M.D., New York, N.Y.
ROGER W. JELLIFFE, M.D., Los Angeles, Calif.
ARNOLD M. KATZ, M.D., New York, N.Y.
RICHARD J. KENNEDY, M.D., New York, N.Y.
CALVIN M. KUNIN, M.D., Madison, Wis.
HENRY G. KUNKEL, M.D., New York, N.Y.
CARROLL M. LEEVY, M.D., Newark, N.J.
IRVING M. LONDON, M.D., Cambridge, Mass.
DONALD B. LOURIA, M.D., Newark, N.J.
JOHN F. MAHER, M.D., Columbia, Mo.
JAMES C. MELBY, M.D., Boston, Mass.
JOSEPH NEWALL, M.D., New York, N.Y.
CARL M. PEARSON, M.D., Los Angeles, Calif.
LOUISE E. PHILLIPS, Ph.D., New York, N.Y.
J. E. RALL, M.D., Bethesda, Md.
HELEN M. RANNEY, M.D., Buffalo, N.Y.
ALBERT L. RUBIN, M.D., New York, N.Y.
ARTHUR A. SASAHARA, M.D., West Roxbury, Mass.
LEONARD SCHERLIS, M.D., Baltimore, Md.
JULIAN B. SCHORR, M.D., Bronx, N.Y.
DONALD W. SELDIN, M.D., Dallas, Tex.
LLOYD H. SMITH, JR., M.D., San Francisco, Calif.
FRANK H. TYLER, M.D., Salt Lake City, Utah
MAX HARRY WEIL, M.D., Los Angeles, Calif.
ARNOLD M. WEISSLER, M.D., Detroit, Mich.
LOUIS G. WELT, M.D., Chapel Hill, N.C.
LAWRENCE E. YOUNG, M.D., Rochester, N.Y.

DUN-DONNELLEY PUBLISHING CORPORATION
466 Lexington Avenue, New York, New York 10017

Copyright © 1972

All rights reserved. No parts of the contents of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording or by any information storage retrieval system, without the written permission of the copyright owner.

Printed in the United States of America

CONTENTS OF VOLUME 52

JANUARY

Histocompatibility Antigens, Immune Responsiveness and Susceptibility to Disease ..... *Hugh O. McDevitt*, *Walter F. Bodmer* 1

Protean Clinical Manifestations of Primary Tumors of the Heart ..... *Arthur Selzer*, *F. Joan Sakai*, *Robert W. Popper* 9

Plasma Arginine Vasopressin in the Syndrome of Inappropriate Antidiuretic Hormone Secretion ..... *Gerhard Bauman*, *Ezequiel Lopez-Amor*, *Joseph F. Dingman* 19

Growth Hormone and Cortisol Responsiveness in Cushing's Syndrome. Relation to a Possible Central Nervous System Etiology ..... *Dorothy T. Krieger*, *Seymour M. Glick* 25

Prolonged Bed Rest in the Treatment of Idiopathic Cardiomyopathy ..... *C. D. McDonald*, *G. E. Burch*, *J. J. Walsh* 41

Pathogenetic Mechanisms of Interstitial Pulmonary Fibrosis in Patients with Serum Antinuclear Factor. A Histologic and Clinical Correlation ..... *Hiroshi Nagaya*, *Herbert O. Sieker* 51

Delayed Hypersensitivity in Hodgkin's Disease. A Study of 103 Untreated Patients ..... *Robert C. Young*, *Michael P. Corder*, *Harley A. Haynes*, *Vincent T. DeVita* 63

Abdominal Lymphoma and Alpha Chain Disease. Report of Three Cases ..... *L. Bonomo*, *F. Dammacco*, *R. Marano*, *G. M. Bonomo* 73

Current Patterns of Infection in Multiple Myeloma ..... *Burt R. Meyers*, *Shalom Z. Hirschman*, *Judith A. Axelrod* 87

Immunoglobulins and Amyloidosis. An Immunologic Study of Sixty-Two Patients with Biopsy-Proved Disease ..... *Edgar S. Cathcart*, *Robert F. Ritchie*, *Alan S. Cohen*, *Kenneth Brandt* 93

Herpes Simplex Infections in Hematologic Malignancies ..... *Sigfrid A. Muller*, *Ernest C. Herrmann, Jr.*, *R. K. Winkelmann* 102

Diabetes Mellitus with Hyperosmotic Coma 115

Mollaret's Meningitis and Differential Diagnosis of Recurrent Meningitis. Report of Case, with Review of the Literature ..... *Paul E. Hermans*, *Norman P. Goldstein*, *William E. Wellman* 128

FEBRUARY

The Immunoglobulin Origin of Amyloid ..... *George G. Glenner*, *Daniel Ein*, *William D. Terry* 141

Mixed Connective Tissue Disease—An Apparently Distinct Rheumatic Disease Syndrome Associated with a Specific Antibody to an Extractable Nuclear Antigen (ENA) ..... *Gordon C. Sharp*, *William S. Irvin*, *Eng M. Tan*, *R. Gordon Gould*, *Halsted R. Holman* 148

Acute Leukemia Due to Chronic Exposure to Benzene ... *Muzaffer Aksoy, Koray Dinçol, Sakir Erdem, Güncağ Dinçol* ... 160

Heparin Treatment for the Hemorrhagic Diathesis of Acute Promyelocytic Leukemia ... *Harvey R. Gralnick, Joyce Bagley, Elinor Abrell* ... 167

Renin, Aldosterone, Sodium and Hypertension ... *Paul E. Wisenbaugh, Josephine B. Garst, Charles Hull, Richard J. Freedman, Dean N. Matthews, Magdalena Hadady* ... 175

Oliguric Acute Renal Failure in Malignant Hypertension ... *William D. Mattern, Sheldon C. Sommers, Jerome P. Kassirer* ... 187

Mechanism of Increased Renal Tubular Sodium Reabsorption in Cirrhosis ... *C. Chaimovitz, P. Szylman, G. Alroy, O. S. Better* ... 198

Observations on the Pathogenesis, Complications and Treatment of Diabetes in 115 Cases of Haemochromatosis ... *I. W. Dymock, J. Cassar, D. A. Pyke, W. G. Oakley, Roger Williams* ... 203

Familial Nesidioblastosis as the Predominant Manifestation of Multiple Endocrine Adenomatosis ... *James E. Vance, Ralph W. Stoll, Abbas E. Kitabchi, Keith D. Buchanan, Daniel Hollander, Robert H. Williams* ... 211

Hereditary Pancreatitis in a Kinship Associated with Portal Vein Thrombosis ... *Robert McElroy, Philip A. Christiansen* ... 228

Anemia and Infection ... *Elizabeth Barrett-Connor* ... 242

Tertiary Hyperparathyroidism—Does it Exist? ... 254

Glomerulonephritis and Renal Tubular Acidosis in a Case of Chronic Active Hepatitis with Hyperimmunoglobulinemia ... *George S. Bridi, Pedro W. Falcon, Newton C. Brackett, Jr., William J. S. Still, I. Norman Sporn* ... 267

Autoimmune Neutropenia Associated with Chronic Active Hepatitis ... *Laurence A. Boxer, Mitsuo Yokoyama, Robert A. Wiebe* ... 279

MARCH

Lead Poisoning ... *Vincent F. Guinee* ... 283

Lead Encephalopathy in Adults ... *Charles L. Whitfield, Lawrence T. Ch'ien, James D. Whitehead* ... 289

Hereditary Macrothrombocytopathia, Nephritis and Deafness ... *Charles J. Epstein, Mervyn A. Sahud, Carolyn F. Piel, Joseph R. Goodman, Merton R. Bernfield, Joseph H. Kushner, Arthur R. Ablin* ... 299

Renal Resistance to Parathyroid Hormone with Osteitis Fibrosa. "Pseudohypoparathyroidism" — *Boy Frame, Charles A. Hanson, Harold M. Frost, Melvin Block, A. Robert Arnstein* — 311

Hypogonadotropinism in Prader-Willi Syndrome. Induction of Puberty and Spermatogenesis by Clomiphene Citrate — *Carlos R. Hamilton, Jr., Robert E. Scully, Bernard Kliman* — 322

Studies of Endogenous Catecholamines in Patients with Raynaud's Phenomenon Secondary to Progressive Systemic Sclerosis (Scleroderma) — *Joseph D. Sapira, Gerald P. Rodnan, Eileen T. Scheib, Thelma Klaniecki, Margaret Rizk* — 330

Procainamide-Induced Lupus Erythematosus. Clinical and Laboratory Observations — *Stephen E. Blomgren, John J. Condemi, John H. Vaughan* — 338

Hematogenous Brain Abscess in Cyanotic Congenital Heart Disease. Report of Three Cases, with Complete Transposition of the Great Vessels — *Reda M. Shaher, Dennis C. Deuchar* — 349

Evaluation of the Liver and Spleen in Hodgkin's Disease. I. The Value of Hepatic Scintigraphy — *Martin J. Lipton, Gerald L. DeNardo, Saul Silverman, Eli Glatstein* — 356

Evaluation of the Liver and Spleen in Hodgkin's Disease. II. The Value of Splenic Scintigraphy — *Saul Silverman, Gerald L. DeNardo, Eli Glatstein, Martin J. Lipton* — 362

Lead and Hemopoiesis. The Mechanism and Consequences of the Erythropathy of Occupational Lead Poisoning — *C. Albahary* — 367

Diabetes Mellitus and Alcoholism Complicated by an Acute Abdomen — 379

Lead Poisoning in a Family Due to Cocktail Glasses — *Louis Dickinson, Erida L. Reichert, Reginald C. S. Ho, Jerry B. Rivers, N. Kominami* — 391

Xanthogranulomatous Pyelonephritis — *David L. McCullough, Milton R. Tignor, Jr.* — 395

Pituitary Gigantism. Endocrine Studies in a Subject with Hypergonadotropic Hypogonadism — *Byron U. Musa, C. A. Paulsen, M. J. Conway* — 399

Thymoma Associated with Pancytopenia and Hashimoto's Thyroiditis — *M. Allen Dawson* — 406

Vaccina Necrosum and Its Relationship to Impaired Immunologic Responsiveness — *Eleanor R. Freed, Richard J. Duma, Mario R. Escobar* — 411

APRIL

Anticoagulant Therapy in Myocardial Infarction. An Overview of Methodology — *Harry Gross, Arun K. Vaid, Herbert S. Levine, Jack Hasson* — 421

The Frequency and Significance of Coronary Arterial Thrombi and Other Observations in Fatal Acute Myocardial Infarction. A Study of 107 Necropsy Patients — *William C. Roberts, L. Maximilian Buja* — 425

Idiopathic Edema. I. The Occurrence of Hypoalbuminemia and Abnormal Albumin Metabolism in Women with Unexplained Edema — *John R. Gill, Jr., Thomas A. Waldmann, Frederic C. Bartter* — 444

Idiopathic Edema. II. Pathogenesis of Edema in Patients with Hypoalbuminemia	*John R. Gili, Jr.* *James Cox* *Catherine S. Delea* *Frederic C. Bartter*	452
Hyporeninemic Hypertension	*Milton G. Crane* *John J. Harris* *Varner J. Johns, Jr.*	457
Bidirectional Blood Flow Velocity in the Cardiac Chambers and Great Vessels Studied with the Doppler Ultrasonic Flowmeter	*Alberto Benchimol* *Kenneth B. Desser* *John L. Gartlan, Jr.*	467
Amino Acid Metabolism in Lactic Acidosis	*E. B. Marliss* *T. T. Aoki* *C. J. Toews* *P. Felig* *J. J. Connon* *J. Kyner* *W. E. Huckabee* *G. F. Cahill, Jr.*	474
Klinefelter's Syndrome in Identical Twins with the 46,XX Chromosome Constitution	*F. L. Nicolis* *L. Y. Hsu* *R. Sabetghadam* *N. B. Kardon* *P. R. Chernay* *D. P. Mathur* *H. G. Rose* *K. Hirschhorn* *J. L. Gabrilove*	482
Infective Endocarditis at Autopsy: 1965–1969	*Morton J. Robinson* *Jack J. Greenberg* *Morton Korn* *Arkadi M. Rywlin*	492
The Inheritance of Familial Hypercholesterolemia	*Julius Jensen* *David H. Blankenhorn*	499
Reticulum Cell Sarcoma with Pulmonary and Gastrointestinal Manifestations		517
Left Atrial Myxoma. Hemodynamic and Phonocardiographic Features	*Ali R. Ghahramani* *John R. Arnold* *Frank J. Hildner* *Leonard S. Sommer* *Philip Samet*	525
Disseminated Mycobacterium Kansasii Infection. Successful Treatment of a Patient with Pancytopenia	*Paul F. Engstrom* *George C. Dewey* *O'Neill Barrett, Jr.*	533
Multiple Myeloma with Massive Proteinuria and Terminal Renal Failure	*Boon Seng Ooi* *Amadeo J. Pesce* *Victor E. Pollak* *Nicolas Mandalenakis*	538
Azaguanine-Resistance as a Manifestation of a New Form of Metabolic Overproduction of Uric Acid	*Paul J. Benke* *Norma Herrick*	547
Pathogenesis of Osteomalacia in Secondary Hyperparathyroidism after Gastrectomy	*Jacobo Wortsman* *Charles Y. C. Pak* *Frederic C. Bartter* *Leonard Deftos* *Catherine S. Delea*	556

MAY

SYMPOSIUM ON HYPERTENSION: MECHANISMS AND MANAGEMENT

Evaluation and Care of the Hypertensive Patient . . . . . *John H. Laragh* 565

Hypertension. Definitions, Natural Histories and Consequences . . . . . *George Pickering* 570

Arterial Pressure Regulation. Overriding Dominance of the Kidneys in Long-Term Regulation and in Hypertension . . . . . *Arthur C. Guyton, Thomas G. Coleman, Allen W. Cowley, Jr., Konrad W. Scheel, R. Davis Manning, Jr., Roger A. Norman, Jr.* 584

A Viewpoint Concerning the Enigma of Hypertension . . . . . *Louis Tobian, Jr.* 595

Physiologic Characteristics of Hypertension . . . . . *Harriet P. Dustan, Robert C. Tarazi, Emmanuel L. Bravo* 610

Adrenal Mineralocorticoids Causing Hypertension . . . . . *E. G. Biglieri, J. R. Stockigt, M. Schambelan* 623

Renin, Angiotensin and Aldosterone System in Pathogenesis and Management of Hypertensive Vascular Disease . . . . . *John H. Laragh, Leslie Baer, Hans R. Brunner, Fritz R. Buhler, Jean E. Sealey, E. Darracott Vaughan, Jr.* 633

Hypertension—A Community Program . . . . . *Joseph A. Wilber, J. Gordon Barrow* 653

The Treatment of Hypertension. Why, When and How . . . . . *Edward D. Freis* 664

Hypertensive Encephalopathy . . . . . *Frank A. Finnerty, Jr.* 672

End of Symposium

Disseminated Intravascular Coagulation (DIC): An Approach . . . . . *Robert W. Colman, Stanley J. Robboy, John D. Minna* 679

Glucagonoma as Part of the Polyglandular Adenoma Syndrome . . . . . *Ronald J. M. Croughs, Harry A. M. Hulsmans, David E. Israël, Willem H. L. Hackeng, Willem Schopman* 690

Lipoid Nephrosis in Hodgkin's Disease . . . . . *Raymond L. Sherman, Myron Susin, Marc E. Weksler, E. Lovell Becker* 699

Renin in Anephric Man. Case Report with Physiologic Studies . . . . . *R. Yu, J. Anderton, S. L. Skinner, J. B. Best* 707

Macroamylasemia Due to Binding by Protein . . . . . *Hobart R. Hansen, Harold Van Kley, William A. Knight, Jr.* 712

JUNE

Obstruction in Small Airways—A Challenge to Medicine . . . . . *P. T. Macklem* 721

A Reduction in Maximum Mid-Expiratory Flow Rate. A Spirographic Manifestation of Small Airway Disease . . . . . *E. R. McFadden, Jr.*, *David A. Linden* 725

Prolonged Effects of Viral Infections of the Upper Respiratory Tract Upon Small Airways . . . . . *John J. Picken*, *Dennis E. Niewoehner*, *Edward H. Chester* 738

Measurement of "Closing Volume" as a Simple and Sensitive Test for Early Detection of Small Airway Disease . . . . . *D. S. McCarthy*, *R. Spencer*, *R. Greene*, *J. Milic-Emili* 747

The Components of the Alveolar-Arterial Oxygen Tension Difference in Normal Subjects and in Patients with Pneumonia and Obstructive Lung Disease . . . . . *Frank F. Davidson*, *Jon B. Glazier*, *John F. Murray* 754

Generalized Accumulation of Neutral Glycosphingolipids with G_{M2} Ganglioside Accumulation in the Brain. Sandhoff's Disease (Variant of Tay-Sachs Disease) . . . . . *William Krivit*, *Robert J. Desnick*, *J. Lee*, *J. Moller*, *Francis Wright*, *Charles C. Sweeley*, *Paul D. Snyder, Jr.*, *Harvey L. Sharp* 763

Paracoccidioidomycosis. A Clinical and Mycologic Study of Forty-One Cases Observed in Santa Maria, RS, Brazil . . . . . *A. T. Londero*, *Cecy D. Ramos* 771

Cumulative Experience in the Detection of Antiplatelet Antibody in 234 Patients with Idiopathic Thrombocytopenic Purpura, Systemic Lupus Erythematosus and Other Clinical Disorders . . . . . *Simon Karpatkin*, *Nathan Strick*, *Margaret B. Karpatkin*, *Gregory W. Siskind* 776

Thyroid Storm Shortly After ^{131}I Therapy of a Toxic Multinodular Goiter? 786

Secondary Malignant Tumors of the Parathyroid Glands. Report of Two Cases with Associated Hypoparathyroidism . . . . . *Charles A. Horwitz*, *W. P. Laird Myers*, *Frank W. Foote, Jr.* 797

Primary Renal Tubular Acidosis and Secondary Hyperparathyroidism . . . . . *Stanley Wallach*, *Richard K. Baker*, *Anthony Nicastri* 809

Severe Alveolar Hypoventilation in a Patient with Metabolic Alkalosis . . . . . *Philip B. Oliva* 817

Ultrastructure of the Lung in Idiopathic Pulmonary Hemosiderosis . . . . . *R. W. Hyatt*, *E. R. Adelstein*, *J. F. Halazun*, *J. N. Lukens* 822

Multicentric Reticulohistiocytosis (Lipoid Dermatoarthritis). A Multisystem Disorder . . . . . *George E. Ehrlich*, *Irving Young*, *Stanley Z. Nosheny*, *Warren A. Katz* 830

Multicentric Reticulohistiocytosis. Report of a Case, with Atypical Features and Electron Microscopic Study of Skin Lesions . . . . . *Marshall Flam*, *Sonia C. Ryan*, *George L. Mah-Poy*, *Kent F. Jacobs*, *Kenneth H. Neldner* 841

Acute Quadriparesis with Muscle Spasms Related to Electrolyte Disturbances in Steatorrhea. Clinical and Biochemical Data . . . . . *C. Coers*, *N. Telerman-Toppet*, *M. Cremer* 849

Author Index 857

Subject Index 859

AUTHOR INDEX TO VOLUME 53

A

Abadi, P., 277
Alarcon-Segovia, D., 357
Alexander, C. S., 395
Amerson, J. R., 381
Amirhakemi, G. H., 277
Anderson, E. T., 775
Anderson, L. G., 456
Anton, A. H., 381
Aprill, S. N., 685
Armstrong, D., 428
Asofsky, R., 456
Aurbach, G. D., 361

B

Babior, B. M., 261
Bach, J. F., 185
Bader, M. E., 743
Bader, R. A., 743
Barakat, R. M., 277
Barbour, G. L., 323
Bartimmo, E. E., Jr., 755
Baumann, G., 805
Baxter, J. D., 573
Baylin, S. B., 723
Beaven, M. A., 723
Beker G., S., 511
Berman, L. B., 701
Berney, S., 36
Birchall, R., 77
Bishko, F., 36
Bleich, H. L., 285
Bogaert, M. G., 797
Braunwald, E., 92
Brunner, H. R., 649
Buchbinder, N. A., 7, 20
Buja, L. M., 723
Burgess, J. L., 77
Burton, J. R., 137
Butler, T., 268

C

Cain, J. P., 627, 805
Cheitlin, M. D., 473
Christensen, K. N., 517
Chusid, E. L., 743
Cohn, J. N., 704, 715
Colwell, J., 690
Coonrod, J. D., 85
Cosby, R. S., 739
Crosby, T. W., 354
Cummings, N. A., 456
Curl, F. D., 784

D

Dalen, J. E., 292
Dales, L. G., 219
Dans, P. E., 85
Dardenne, M., 185
Dexter, L., 292
Dingman, J. F., 805
Dluhy, R. G., 595, 627
Duckworth, W. C., 418

E

Edelman, I. S., 545
Eisner, E. V., 790
Ellis, L. D., 693
Ellman, M. H., 690
Epstein, S. E., 446

F

Fajardo, L. F., 348
Feldman, D., 545
Finch, C. A., 1
Forman, B. H., 561
Forsham, P. H., 573
Funder, J. W., 545

G

Gershwin, M. E., 348
Giddings, J. A., 739
Glancy, D. L., 446
Glasser, S. P., 473
Goldman, R., 368
Goldstein, M., 36
Gonick, H. C., 368
Goodman, R. M., 505
Grases, P. J., 511
Greene, M. L., 361
Grossman, W., 292
Groszmann, R. J., 704, 715
Guisan, M., 755
Gurwith, M., 348
Gutmann, L., 354
Györkey, F., 148
Györkey, P., 148

H

Haas, J. H., 473
Haghshenass, M., 277
Hall, R. J., 473
Halsted, J. A., 277
Han, T., 437
Harrison, D. C., 775
Heaton, C. L., 127
Hefner, L. L., 481
Heinemann, M., 418
Hellebusch, A. A., 159
Hendee, A. E., 381
Higgins, C. B., 92
Hirschman, S. Z., 257
Hoffman, D. L., 43
Hylton, M. B., 456

J

Jacobson, J., II, 743
Jaffe, R. B., 446
Jakobson, H., 242
Johansson, B. W., 50
Jowsey, J., 43
Juniper, K., Jr., 323

K

Kaplan, N. M., 377
Kasper, K., 790
Katayama, I., 193
Kazam, E. S., 361
Keiser, H. R., 723
Kelly, P. J., 43
Kerber, R. E., 775
Khatri, I. M., 704, 715
Kitabchi, A. E., 418
Kosek, J. C., 348
Kotelanski, B., 704, 715
Kramer, H. J., 368
Kriss, J. P., 775

L

Laragh, J. H., 649
Lauler, D. P., 673
Lawson, W., 257
Leathem, A., 170
Lee, S. L., 203
Leonhardt, E. T. G., 242
Lewis, J. L., 315
Li, C. Y., 193
Liddle, G. W., 638
Lindenbaum, J., 748
Linell, F., 50
Linhart, J. W., 64
Lordon, R. E., 137
Luke, R. G., 159

M

Maher, G. G., 743
Mahieu, P., 185
Marcus, R., 361
Mark, R., 693

Martin, J. D., 354
Mayo, M., 739
Mayorga-Cortes, A., 357
McCarty, R. J., 473
Medeiros, A. A., 308
Meister, S. G., 292
Meriwether, W. D., 505
Meyers, B. R., 257
Migeon, C. J., 606
Miller, A., 743
Min, K. W., 148
Misra, R. P., 701
Mitchell, J. H., 481
Monroe, R. G., 481
Moore, G. E., 437
Morel-Maroger, L., 170
Moser, K. M., 755
Mullins, C. E., 473
Mulrow, P. J., 561
Myerowitz, R. L., 308

N

Necheles, T. F., 193
Nelson, D. H., 590
Nicholson, D. P., 131
Nicogossian, A., 743

O

O'Brien, T. F., 308

P

Page, L. K., 697
Paulus, H. E., 464
Pearson, C. M., 464
Perloff, J. K., 446
Pezzimenti, J. F., 748
Pilewski, R. M., 693
Pimstone, B. L., 521
Pirozzi, D. J., 127
Pitts, W., Jr., 464

R

Rabiner, S. F., 685
Rabinovich, S., 315
Radner, D. B., 685
Raizner, A. E., 343
Ramos, C., 428
Reinhold, J. G., 277
Richet, G., 170
Ridges, J. D., 775
Riggs, B. L., 43
Ringqvist, O. T. A., 242
Ripa, J., 50
Roberts, W. C., 7, 20
Rogers, J., 734
Ronaghy, H. A., 277
Rose, H. G., 299
Rosen, P., 428
Rosenoff, S. H., 627
Rosner, F., 203
Rubin, M. B., 127

S

Sapira, J. D., 693, 801
Schall, G. L., 456
Schwartz, E., 299
Sealey, J., 649
See, J. R., 739
Seegmiller, J. E., 361
Shepherd, R. L., 446
Shires, G. T., 377
Siegel, R. R., 159
Silverman, J. F., 775
Silverman, M. E., 343
Simanis, J., 381
Sinkovics, J. G., 148
Sokal, J. E., 437
Sorensen, L. B., 690
Stein, J. A., 784
Suzuki, M., 123
Swaroop, S., 386

T

Takamori, M., 354
Talal, N., 456
Tarpley, T. M., Jr., 456
Teirstein, A., 743
Tesar, J. T., 690
Thorn, G. W., 529, 673
Tomasi, T. B., Jr., 456
Trell, E., 50
Tschudy, D. P., 784
Tuck, M. L., 627
Turkington, R. W., 389
Tyler, F. H., 664

U

Uys, C. J., 521

V

Valsamis, M., 784
Vermeulen, A., 797
Villee, D. B., 533
Vogelpoel, L., 521

W

Waters, W. C., III, 343
Weiss, H. J., 734
West, C. D., 664
Wiedemann, E., 299
Williams, G. H., 595, 627
With, T. K., 517
Wolf, R. O., 456
Woolf, I. L., 261

Y

Yam, L. T., 193

SUBJECT INDEX TO VOLUME 53

E = Editorial; CPC = Clinicopathologic Conference

A

Abscess
  in brain, myocardium, intestine and skin (CPC), 233
  of liver, pyogenic versus amebic, 323
Acid-base balance,
  disorders of, 285
  effect of mineralocorticoids on, 561
Acidosis
  in cobalt-beer cardiomyopathy, 395
  renal tubular, and amphotericin B, 77
Acrocephalosyndactyly, 123
ACTH
  effect on glucocorticoid release, 590
  producing thymic tumor, cause of Cushing's syndrome, 521
  response to decrease in corticosteroids, 590
  role in aldosterone production, 595, 627, 638, 649
Adenomas, adrenal, 673
  aldosterone secretion in, 627
Adipose tissue, glucocorticoid effects on, 573
Adrenal adenomas, 673
  aldosterone secretion in, 627
Adrenal androgens in man, 606
Adrenal carcinoma, 673
Adrenal cortex
  laboratory evaluation of disorders, 664
  symposium on, 529–684
Adrenal cortical insufficiency
  acute, chronic and iatrogenic, 673
  detection of, 664
Adrenal disorders, clinical therapeutics of, 673
Adrenal hyperplasia, bilateral, with Cushing's syndrome, 673
Adrenal steroids, subcellular mechanisms in action of, 545
Adrenal tumors, virilizing and feminizing, role of adrenal androgens in, 606
Adrenalectomy, bilateral, in Cushing's disease, 377
Adrenergic blockade in treatment of unresectable pheochromocytoma in pregnancy, 381
Agar gel diffusion test in amebic liver abscess, 323
Airway obstruction in Ludwig's angina, 257
Alcoholic liver disease
  hepatic blood flow in, measured by indicator dilution technic, 704
  portasystemic shunting from splenic and mesenteric beds in, 715
Alcoholism, pneumonia, meningitis and infective endocarditis, 7
Aldosterone
  biosynthesis, interrelationship of regulatory factors, 595
  effect on potassium and sodium excretion, 561
Aldosterone
  in anephric man, 595
    in normal and hypertensive man, 649
  in primary aldosteronism, 627
  -renin patterns in low renin hypertension, 649
  secretion
    control of, 595
Aldosteronism, primary, aldosterone secretion in, 627
Allopurinol in xanthinuria, 690
Alkyl mercury compounds, neurotoxicity of, 219
Amebic and pyogenic abscess of liver, comparison of, 323
Amphotericin B
  effect of glomerular filtration rate, 77
  in cryptococcal infections, 315
  nephrotoxicity of, 77
Amyloidosis (CPC), 495
Androgens, adrenal, in man, 606
Anemia
  aplastic, and oxyphenbutazone, 693
  hemolytic, and porphyria, 517
  megaloblastic, and erythroid hypoplasia, 748
  pernicious, in Eaton-Lambert syndrome, 354
  sickle cell, pathophysiologic aspects (E), 1
Aneurysm of sinus of Valsalva, unruptured, producing right ventricular outflow obstruction, 775
Aneurysms, multiple, in polyarteritis nodosa, 242
Angina
  Ludwig's, review of bacteriology and current therapy in, 257
  variant, 739
Angiography in diagnosis of polyarteritis nodosa, 242
Angiotensin, role in aldosterone secretion, 649
Antigenic disparity between lymphoid cells and lymphocytes, 437
Antimicrobial therapy for Ludwig's angina, 257
Aortic insufficiency
  and interventricular septal defect, 473
  in Reiter's syndrome, 464
Apert's syndrome, 127
Aplastic anemia and oxyphenbutazone, 693
Arterial embolism in paradoxical embolism, 292
Arteries, systemic, multiple abnormalities in Osler's disease, 50
Arthritis, tuberculous, clinical and diagnostic features, 36
Articular involvement caused by narcotic addiction, direct joint trauma, intra-articular steroid injections and systemic illness, 36
Aspiration, needle, in diagnosis of liver abscesses, 323
Atheromatous embolization with acute and chronic pancreatitis (CPC), 335
Atherosclerosis of entire aorta and left anterior descending and circumflex coronary arteries (CPC), 335

Atrial pacing in coronary artery disease, 64
Autoimmune disorders in Eaton-Lambert syndrome, 354
Autotransplantation in Cushing's disease, 377

B

Bacteremia in renal homotransplant recipients, 308
Bacteremic seeding of chronic subdural hematomas resulting in subdural empyema, 85
Bacterial endocarditis (staphylococcal) arising in endocardial friction lesion (CPC), 233
Bacterial infections in renal homotransplant recipients, 308
Basement membranes, glomerular and tubular, humoral and cell-mediated immunity to, 185
Battle casualties with renal failure, catabolism measurements in, 137
Bleeding caused by colonic diverticula (CPC), 113
Blood flow, hepatic, in alcoholic liver disease measured by indicator dilution technic, 704
Bone, effects of glucocorticoids on, 573
Brain abscess (CPC), 233
Bubonic plague, clinical study of, 268

C

Calcium
  excretion, effect of mineralocorticoids on, 561
  therapy in osteoporosis, 43
Carbohydrate metabolism in gout, 299
Carcinoma
  see also Tumor
  adrenal, 673
  of thyroid, medullary, histaminase activity as biochemical marker for, 723
Cardiac conduction abnormalities in Loffler's endomyocarditis, 343
Cardiac disease with relapsing pancreatitis (CPC), 335
Cardiac muscle, mechanical performance of, 481
Cardiogenic shock in cobalt-beer cardiomyopathy, 395
Cardiomyopathy, cobalt-beer, 395
Cardiopulmonary symptoms in eosinophilia, 193
Cardiovascular effects of glucocorticoids, 573
Catabolism in post-traumatic renal failure, 137
Catheterization of subclavian vein complicated by hemomediastinum (CPC), 113
Catheters, two central venous monitoring, knotting of, 386
Cell-mediated immunity to kidney basement membranes in renal diseases, detection of, 185
Central nervous system
  effects of glucocorticoid on, 573
  involvement in cryptococcal infections, 315
Central venous monitoring catheters, knotting of, 386
Chlorambucil therapy for pulmonary involvement in Waldenstöm's macroglobulinemia, 685
Circulatory disturbances in polyarteritis nodosa, 242
Clark USAF Hospital, experience with post-traumatic renal failure at, 137
Clinicopathologic Conferences
  A thirty-eight year old woman with overwhelming sepsis, 233
  Amyloidosis, 495
  Chronic relapsing pancreatitis with cardiac and renal disease, 335
  Generalized seizures following isoniazid therapy for tuberculosis in a patient with uremia, 765
  Valvular heart disease and unexplained gastrointestinal hemorrhage, 113
Coagulation studies in bubonic plague, 268
Cobalt, toxicology of, 395
Cobalt-beer cardiomyopathy, clinical and pathologic study of, 395
Collagen diseases, cytoplasmic filamentous structures in, 148
Colon, descending, passage of melanotic stools from diverticula in (CPC), 113
Complement fixation test in amebic liver abscess, 323
Computer programming in managing electrolyte and acid-base disorders, 285
Conduction disturbances in Löffler's endomyocarditis, 343
Congenital adrenal hyperplasia, 673
  laboratory detection of, 664
  role of adrenal androgens in, 606
Congestive heart failure and Löffler's endomyocarditis, 343
Cor pulmonale, acute, in bubonic plague, 268
Coronary arteriography in variant angina, 739
Coronary artery disease, atrial pacing in, 64
Corticosteroid
  secretion, diurnal variation in, 590
  toxicity after renal transplantation minimized by dose-spacing, 159
Corticosteroid receptor systems, 545
Corticosteroids
  ACTH response to decrease in, 590
  used as nonspecific pharmacologic agents, 673
Cryoprecipitate, platelet abnormality in von Willebrand's disease corrected by, 734
Cryptococcal infections, wide spectrum of, 315
Cryptococcal meningitis, 315
Cryptococcosis, central nervous system and lung involvement in, 315
Cushing's disease
  cured by bilateral adrenalectomy and autotransplantation, 377
  new variant of, 638
Cushing's syndrome, 673
  and bilateral adrenal hyperplasia, 673
  due to ACTH-producing thymic tumor, 521
  laboratory detection of, 664
  role of adrenal androgens in, 606
Cytoplasmic filamentous structures in collagen diseases, 148

D

Dalmation dog mutation in man, 361
Descending colon, passage of melanotic stools from diverticula in (CPC), 113
Dexamethasone suppression, aldosterone responses to, 627
Diabetes, direct measurement of plasma proinsulin in, 418
Dietary sodium and potassium, effect on aldosterone secretion, 595, 627, 649
Diurnal variation in corticosteroid secretion, 590
Diverticula, colonic, bleeding from (CPC), 113
Dosage-spacing, effect on complications of steroid therapy in renal transplant recipients, 159
Down's syndrome and acute leukemia, 203
Dwarfism, nutritional, and zinc deficiency, 277

E

Eaton-Lambert syndrome and autoimmune disorders, 354
Edema, pulmonary (CPC), 233
Editorials
  Extrinsic allergic pneumonias, 131
  Human prolactin; an ancient molecule provides new insights for clinical medicine, 389
  Molecular nephrology, 701
  Pathophysiologic aspects of sickle cell anemia, 1
  Vitamin K and warfarin; metabolism, function and interaction, 261
Electrocardiograms in bubonic plague, 268
Electrolyte and acid-base disorders, 285
Electrolyte excretion, disturbed in acute intermittent porphyria, 784
Embolism
  arterial, in paradoxical embolism, 292
  paradoxical, diagnosis during life, 292
Embolization, atheromatous, with acute and chronic pancreatitis (CPC), 335
Emphysema, pulmonary, effect of pressurized environment on, 743
Empyema, subdural, 85
Endocardial fibroelastosis and Pickwickian syndrome, 123
Endocardial friction lesion, bacterial (staphylococcal) endocarditis arising in an (CPC), 233
Endocarditis
  bacterial (CPC), 233
  eosinophilic, 193
  left-sided valvular active infective, 20
  Loffler's, and eosinophilia, 193
Endocarditis, right-sided valvular infective, 7
Endotoxin in pathogenesis of bubonic plague, 368
Environmental concentrations of alkyl mercury compounds, 219
Eosinophilia
  and Löffler's endomyocarditis, 343
  terminating in myeloblastoma, 348
Eosinophilia
  with cardiopulmonary symptoms, hepatosplenomegaly and endocarditis, 193
Erythroid hypoplasia and megaloblastic anemia, 748

F

Fabry's disease, pulmonary involvement in, 755
Factitious hyposthenuria, 801
Familial pulmonary hypertension in Osler's disease, 50
Female hirsutism, adrenal hyperactivity in, 606
Feminizing adrenal tumors, 673
  role of adrenal androgens in, 606
Fetal adrenal cortex
  androgens from, role in over-all steroid production, 606
  development of, 533
Fibrin thrombi in purpuric lesions in bubonic plague, 268
Fibroelastosis, endocardial, and Pickwickian syndrome, 123
Fibrosis, endocardial and subendocardial, and eosinophilia, 343
Fluoride therapy in osteoporosis, 43
Food concentrations of alkyl mercury compounds, 219
Frostbite treated by rapid rewarming by water immersion, 505

G

Gastric secretion, effects of glucocorticoids on, 573
Gastrointestinal bleeding due to colonic diverticula (CPC), 113
Gastrointestinal tract, effect of mineralocorticoids on, 561
Geophagia
  and zinc deficiency, 277
  as factor in nutritonal dwarfism, 277
Gigantism with hypopituitarism, 805
Glomerular abnormalities in nonsystemic diseases, 170
Glomerular basement membrane, humoral and cell-mediated immunity to, 185
Glomerular filtration rate, effect of amphotericin B on, 77
Glomerulonephritis, light microscopic and immunofluorescent findings in, 170, 185
Glucocorticoid
  action, mechanism of, 573
  disorders, pathogenesis of, 638
  release, regulation of, 590
Glucocorticoids
  tissue effects of, 573
Glucose tolerance in gout, 299
Gout, plasma lipoproteins, glucose tolerance and insulin response in, 299
Granulopoiesis, ineffective, masquerading as acute myeloblastic leukemia in Down's syndrome, 203

H

Heart
block in Löffler's endomyocarditis, 343
disease, valvular, and unexplained gastrointestinal hemorrhage (CPC), 113
effect of mineralocorticoids on, 561
failure, congestive, in Löffler's endomyocarditis, 343
Hemagglutination test
in amebic abscess of the liver, 323
in renal disease, 185
Hematomas, subdural, and subdural empyema, 85
Hemodynamic features of interventricular septal defect and aortic insufficiency, 473
Hemolytic anemia and porphyria, 517
Hemomediastinum as complication of subclavian vein catheterization (CPC), 113
Hemorrhage, gastrointestinal, and valvular heart disease (CPC), 113
Hepatic blood flow in alcoholic liver disease measured by indicator dilution technic, 704
Hepatic vein branches, occlusion of, in subacute veno-occlusive disease, 511
Hepatosplenomegaly in eosinophilia, 193
Heroin addiction and infective endocarditis, 7
Hirsutism, female, adrenal hyperactivity in, 606
Histaminase activity as biochemical marker for medullary carcinoma of thyroid, 723
Human prolactin (E), 389
Humoral immunity to kidney basement membrane in renal disease, detection of, 185
Hyperaldosteronism, primary, secondary and tertiary, 673
Hyperbaric chamber, effect on pulmonary emphysema, 743
Hypercortisolism, primary and secondary, 638
Hyperplasia
bilateral adrenal, associated with Cushing's syndrome, 673
congenital adrenal, 673
role of adrenal androgens in, 606
laboratory detection of, 664
Hypertension
control of aldosterone secretion in, 649
essential, renin, potassium and aldosterone interrelationships in, 649
familial pulmonary, in Osler's disease, 50
low renin, renin-aldosterone patterns in, 649
Hypertriglyceridemia, type IV, in gout, 299
Hypoaldosteronism, 673
Hypocortisolism, primary and secondary, 638
Hypokalemia, effect of amphotericin B on, 77
Hypopituitarism with gigantism, 805
Hypoplasia, erythroid, and megaloblastic anemia, 748
Hyposthenuria, factitious, 801
Hypothermia, severe accidental, with survival after rewarming, 505
Hypothyroidism in Eaton-Lambert syndrome, 354
Hypouricemia due to isolated renal tubular defect, 361

I

Immunity, humoral and cell-mediated, to kidney basement membranes in renal diseases, 185
Immunofluorescent findings in primary glomerulonephritis, 170
Immunoglobulin, salivary gland, and rheumatoid factor synthesis in Sjögren's syndrome, 456
Infections
bacterial, in renal homotransplant recipients, 308
cause of death in post-traumatic renal failure, 137
cryptococcal, wide spectrum of, 315
Insulin response in primary gout, 299
Interventricular septal defect and aortic insufficiency; clinical, hemodynamic and surgical features, 473
Intestine, abscesses in (CPC), 233
Iron metabolism in intermittent porphyria with new morphologic findings, 784
Isoniazid therapy for tuberculosis followed by generalized seizures (CPC), 765

K

Kidney
basement membranes in renal diseases, detection of humoral and cell-mediated immunity to, 185
effect of mineralocorticoids on, 561
Knotting of two central venous monitoring catheters, 386

L

L-dopa in controlling prolactin secretion (E), 389
Leukemia
acute, and Down's syndrome, 203
acute granulocytic, and pseudoeosinophilia, 193
and mongolism, 203
and Pneumocystis carinii pneumonia, 428
eosinophilic, 193
Leukocyte migration test in renal disease, 185
Leukocytosis and Löffler's endomyocarditis, 343
Light microscopic findings in primary glomerulonephritis, 170
Lipid and carbohydrate metabolism in gout, 299
Liver
abscess, pyogenic versus amebic, 323
disease, alcoholic
indicator dilution technic in measurement of hepatic blood flow in, 704
portasystemic shunting from splenic and mesenteric beds in, 715
glucocorticoid effects on, 573
scanning in locating abscess cavities, 323
veno-occlusive disease of, in Venezuela, 511
Löffler's endomyocarditis, conduction disturbances and pacemaker failure in, 343
Ludwig's angina, review of bacteriology and current therapy in, 257

Lung
see also Pulmonary
involvement in cryptococcal infections, 315
Lupus erythematosus, systemic, cytoplasmic filamentous structures in, 148
Lymphoblastic leukemia and Down's syndrome, 203
Lymphocytes, disparity between lymphoid cells and, 437
Lymphoid cells, disparity between lymphocytes and, 437
Lymphoma
and Pneumocystis carinii pneumonia, 428
in cryptococcal infections, 315

M

Magnesium excretion, effect of mineralocorticoids on, 561
Medullary carcinoma of thyroid, histaminase activity as biochemical marker for, 723
Megaloblastic anemia and erythroid hypoplasia, 748
Melanotic stools, passage from diverticula in descending colon (CPC), 113
Meningitis
acute, in infective endocarditis, 7
cryptococcal, 315
Mercury concentrations in foodstuffs and environment, 219
Mesenteric bed, portasystemic shunting from, in alcoholic liver disease, 715
Metyrapone test in detecting disorders of the adrenal cortex, 664
Military personnel, post-traumatic renal failure in, 137
Mineralocorticoids, tissue effects of, 561
Mongolism
see also Down's syndrome
and leukemia, 203
Mongoloid newborns and leukemia, 203
Muscle
cardiac, mechanical performance of, 481
effect of mineralocorticoids on, 561
glucocorticoid effects on, 573
Myeloblastic leukemia and Down's syndrome, 203
Myeloblastoma, eosinophilia terminating in, 348
Myocardium
abscesses in (CPC), 233
mechanical performance of, relation between oxygen consumption and, 481

N

Narcotic addiction and tuberculous arthritis, 36
Necropsy study of patients with infective endocarditis, 7, 20
Needle aspiration in diagnosis and therapy of liver abscesses, 323
Neoplasm of pleura and pericardium in patient with benign eosinophilia, 348
Neoplastic disease, Pneumocystis carinii pneumonia in patients with, 428
Nephrotoxicity of amphotericin B, 77
Neurinoma, acoustic, and osteitis deformans, 697
Neurotoxicity of alkyl mercury compounds, 219
Newborns, mongoloid, and leukemia, 203
Nucleocapsids, viral, in collagen diseases, 148
Nutrition, role in post-traumatic renal failure, 137
Nutritional dwarfism and zinc deficiency, 277

O

Obstruction
acquired subvalvular, and ventricular septal defect, 446
airway, in Ludwig's angina, 257
caused by unruptured aneurysm of sinus of Valsalva, 775
Occlusion of main hepatic vein branches in subacute veno-occlusive disease, 511
Organ involvement in polyarteritis nodosa, 242
Osler's disease, familial pulmonary hypertension in, 50
Osteitis deformans and acoustic neurinoma, 697
Osteoporosis, sodium fluoride, vitamin D and calcium therapy in, 43
Otitis, subdural empyema following, 85
Oxygen consumption, relation between mechanical performance of myocardium and, 481
Oxyphenbutazone and aplastic anemia, 693

P

Pacemaker failure in Löffler's endomyocarditis, 343
Paget's disease and acoustic neurinoma, 697
Pancreatitis
acute and chronic, with atheromatous embolization (CPC), 335
relapsing, with cardiac and renal disease (CPC), 335
Para-aminosalicylic acid, immune thrombocytopenia due to metabolite of, 790
Paradoxical embolism diagnosed during life, 292
Pentamidine therapy for Pneumocystis carinii pneumonia in patients with neoplastic disease, 428
Peptide hormones, measurement of, 664
Pericardium, myeloblastoma of, and eosinophilia, 348
Pernicious anemia in Eaton-Lambert syndrome, 354
Phenoxybenzamine in treatment of pheochromocytoma in pregnancy, 381
Pheochromocytoma
of urinary bladder, with inconclusive chemical and pharmacologic tests, 797
unresectable, in pregnancy, 381
Physical training, effect on circulation in polyarteritis nodosa, 242
Pickwickian syndrome and endocardial fibroelastosis, 123
Pigmentation in Cushing's syndrome, 673
Pituitary ACTH deficiency, screening for, 664
Pituitary gland, anterior, in control of aldosterone secretion, 595

Plasma
lipoproteins in primary gout, 299
proinsulin, direct measurement in normal and diabetic subjects, 418
steroids, measurements of, 664
Platelet abnormality in von Willebrand's disease corrected by cryoprecipitate, 734
Pleura, myeloblastoma of, and eosinophilia, 348
Pneumocystis carinii pneumonia in patients with neoplastic disease, 428
Pneumonia
acute, in infective endocarditis, 7
extrinsic allergic (E), 131
Pneumocystis carinii, in patients with neoplastic disease, 428
Poisoning by alkyl mercury compounds, 219
Polyarteritis nodosa, multifocal organic involvement and functional disturbances in, 242
Porphyria
acute intermittent, abnormal iron and water metabolism in, 784
latent cutaneous, type PCT, 517
Portasystemic shunting from splenic and mesenteric beds in alcoholic liver disease, 715
Potassium
balance and renin-aldosterone interaction, 649
clearance, effect of amphotericin B on, 77
dietary, effect on aldosterone secretion, 595, 627, 649
excretion, effect of aldosterone on, 561
role in control of aldosterone secretion, 595, 627, 649
Prednisone therapy, alternate-day, in renal transplant patients, 159
Pregnancy, unresectable pheochromocytoma in, 381
Pregnenolone, metabolism of, 533
Pressurized environment, effect on pulmonary emphysema, 743
Progesterone, metabolism of, 533
Prolactin secretion, disorders of (E), 389
Propranolol in treatment of pheochromocytoma in pregnancy, 381
Prostaglandins, biochemical, physiologic and clinical considerations, 92
Proteins, steroid-induced, 545
Pseudoeosinophilia, eosinophilic endocarditis and eosinophilic leukemia, 193
Pulmonary edema (CPC), 233
Pulmonary emphysema, effect of pressurized environment on, 743
Pulmonary hypertension, familial, in Osler's disease, 50
Pulmonary involvement
in cryptococcal infections, 315
in Fabry's disease, 755
in Waldenstrom's macroglobulinemia, 685
Purine metabolism in xanthinuria, 690
Pyogenic versus amebic abscess of liver, 323

R

Radioisotope scanning in localizing liver abscesses, 323
Reiter's syndrome, aortic insufficiency in, 464
Renal blood flow, effect of amphotericin B on, 77
Renal disease
detection of humoral and cell-mediated immunity to kidney basement membranes in, 185
with relapsing pancreatitis (CPC), 335
Renal failure, post-traumatic, in military personnel in Southeast Asia, 137
Renal homotransplant recipients, bacterial infection in, 308
Renal salt wasting, persistent, 368
Renal transplantation
reduction of corticosteroid toxicity after, 159
salt-losing syndromes following, 368
Renal tubular acidosis and amphotericin B, 77
Renal tubular defect causing hypouricemia, 361
Renin-aldosterone patterns in low renin hypertension, 649
Renin-angiotensin system and aldosterone secretion, 595
Respiratory mechanics in polyarteritis nodosa, 242
Rewarming, rapid, for severe accidental hypothermia with survival, 505
Rheumatoid factor synthesis and salivary gland immunoglobulin in Sjögren's syndrome, 456
Rosette test in renal disease, 185

S

Salivary gland
effect of mineralocorticoids on, 561
immunoglobulin and rheumatoid factor synthesis in Sjögren's syndrome, 456
Salt appetite and sensitivity, effect of mineralocorticoids on, 561
Salt-losing syndromes following renal transplantation, 368
Seizures, generalized, following isoniazid therapy for tuberculosis (CPC), 765
Sepsis, overwhelming, a thirty-eight year old woman with (CPC), 233
Septal defect
interventricular, and aortic insufficiency, 473
ventricular, and acquired subvalvular right ventricular outflow obstruction, 446
Septicemia, staphylococcal, with shock (CPC), 233
Shock, cardiogenic, in cobalt-beer cardiomyopathy, 395
Shiraz experiment, 277
Shunts, right to left intracardiac, in paradoxical embolism, 292
Sickle cell anemia, pathophysiologic aspects (E), 1
Sinus of Valsalva, unruptured aneurysm, producing right ventricular outflow obstruction, 775

Sinusitis, subdural empyema following, 85
Skeleton and bone, effects of glucocorticoids on, 573
Skin
  abscesses (CPC), 233
  histology in bubonic plague, 268
Sodium
  dietary, effect on aldosterone secretion, 595, 627, 649
  excretion, effect of aldosterone on, 561
  fluoride in osteoporosis, 43
Splenic bed, portasystemic shunting from, in alcoholic liver disease, 715
Staphylococcal septicemia with shock (CPC), 233
Steroid
  complications minimized by dose-spacing in renal transplant patients, 159
  -induced proteins, 545
  injections, intra-articular, predisposing factor in articular involvement, 36
  nucleus, 533
  toxicity after renal transplantation, reduced by alternate-day therapy, 159
Steroidogenesis, development of, 533
Steroids, adrenal, subcellular mechanisms in action of, 545
Streptomycin in treatment of bubonic plague, 268
Stress, glucocorticoid response to, 590
Subclavian vein catheterization, hemomediastinum as complication of (CPC), 113
Subdural empyema, 85
Surgical features of interventricular septal defect and aortic insufficiency, 473
Sweat, effect of mineralocorticoids on, 561
Symposium on the adrenal cortex, 529–684
  Adrenal androgens in man, 606
  Aldosterone biosynthesis, interrelationship of regulatory factors, 595
  Clinical therapeutics of adrenal disorders, 673
  Control of aldosterone secretion in normal and hypertensive man; abnormal renin-aldosterone patterns in low renin hypertension, 649
  Development of steroidogenesis, 533
  Foreword, 529
  Laboratory evaluation of disorders of adrenal cortex, 664
  Pathogenesis of glucocorticoid disorders, 638
  Regulation of aldosterone secretion in primary aldosteronism, 627
  Regulation of glucocorticoid release, 590
  Subcellular mechanisms in the action of adrenal steroids, 545
  Tissue effects of glucocorticoids, 573
  Tissue effects of mineralocorticoids, 561
Systemic arteries, multiple abnormalities in Osler's disease, 50
Systemic lupus erythematosus, cytoplasmic filamentous structures in, 148
Systemic venular insufficiency, 357

T

Thrombocytopenia, immune, due to metabolite of para-aminosalicylic acid, 790
Thrombosis, venous, in paradoxical embolism, 292
Thymic tumor, ACTH-producing, as cause of Cushing's syndrome, 521
Thyroid, medullary carcinoma of, histaminase activity as biochemical marker for, 723
Tissue effects of glucocorticoids, 573
Tissue effects of mineralocorticoids, 561
Toxic effects of alkyl mercury, 219
Toxicity of corticosteroid therapy, reduction after renal transplantation, 159
Transvenous pacing in Löffler's endomyocarditis, 343
Trauma
  direct joint, predisposing factor in articular involvement, 36
  subdural empyema following, 85
Tricuspid valve, infective endocarditis of, 7
Tuberculosis
  cause of monoarticular arthritis, 36
  isoniazid therapy for, followed by generalized seizures (CPC), 765
Tuberculous arthritis, clinical and diagnostic features, 36
Tubular basement membrane, humoral and cell-mediated immunity to, 185
Tubular function, effect of amphotericin B on, 77
Tubular reabsorptive defect for urate as cause of hypouricemia, 361
Tumor
  see also Carcinoma
  ACTH-producing thymic, as cause of Cushing's syndrome, 521
  feminizing, of the adrenal, 673
  virilizing, of the adrenal, 673
    role of adrenal androgens in, 606

U

Urate, genetically determined tubular reabsorptive defect for, as cause of hypouricemia, 361
Uremia, generalized seizures following isoniazid therapy for tuberculosis in patient with (CPC), 765
Uric acid, effect of amphotericin B on, 77
Urinary bladder, pheochromocytoma of, with inconclusive chemical and pharmacologic tests, 797
Urinary steroids, measurement of, 664
Urinary tract infections and bacteremia, 308

V

Valvular dysfunction in infective endocarditis, 7, 20
Valvular heart disease and unexplained gastrointestinal bleeding (CPC), 113
Valvular infective endocarditis, 7, 20

Vena cava, inferior, ligation in treatment of paradoxical embolism, 292
Venezuela, veno-occlusive disease of liver in, 511
Veno-occlusive liver disease in Venezuela, 511
Venous thrombosis in paradoxical embolism, 292
Ventricular failure, left, in cobalt-beer cardiomyopathy, 395
Ventricular outflow obstruction, right, caused by unruptured aneurysm of sinus of Valsalva, 775
Ventricular performance, left, 481
Ventricular septal defect and acquired subvalvular obstruction, 446
Vietnam epidemic of bubonic plague, observations on, 268
Viral nucleocapsids in collagen diseases, 148
Virilizing tumors of the adrenal, 673
  role of adrenal androgens in, 606
Vitamin B_{12} levels in eosinophilia terminating in myeloblastoma, 348
Vitamin D in osteoporosis, 43
Vitamin K and warfarin; metabolism, function and interaction (E), 261
Volume depletion, aldosterone responses to, 627
von Willebrand's disease, platelet abnormality in, corrected by cryoprecipitate, 734

W

Waldenstrom's macroglobulinemia with pulmonary involvement, 685
Warfarin and vitamin K; metabolism, function and interaction (E), 261
Water
  immersion, rapid rewarming by, in treatment of severe accidental hypothermia, 505
  metabolism
    abnormal, in intermittent porphyria with new morphologic findings, 784
    effect of mineralocorticoids on, 561

X

Xanthine oxidase deficiency, artifically induced by allopurinol, 690
Xanthinuria, 690

Z

Zinc deficiency in man, the Shiraz experiment, 277

The American Journal of Medicine

VOLUME 53

JULY—DECEMBER 1972

Editor
ARTHUR J. ANTENUCCI, M.D.
Consultant, Medicine
ROOSEVELT HOSPITAL
New York, New York

•

Managing Editor
HELENA B. MANNION

Assistant Managing Editor
ROCHELLE BALA

Publisher
LOUIS F. LE JACQ

Associate Editor
WILLIAM J. GRACE, M.D.
Director, Department of Medicine
ST. VINCENT'S HOSPITAL MEDICAL CENTER
of New York, New York
Professor of Clinical Medicine
NEW YORK UNIVERSITY–BELLEVUE MEDICAL CENTER
New York, New York

•

Editor Emeritus
ALEXANDER B. GUTMAN, M.D.
Emeritus Professor of Medicine
THE MOUNT SINAI SCHOOL OF MEDICINE
of the City University of New York, New York

ADVISORY BOARD

ALEXANDER G. BEARN, M.D.
Professor of Medicine
CORNELL UNIVERSITY MEDICAL COLLEGE
New York, N.Y.

NICHOLAS P. CHRISTY, M.D.
Director, Medical Service
ROOSEVELT HOSPITAL
New York, N.Y.

VICTOR A. McKUSICK, M.D.
Professor of Medicine
THE JOHNS HOPKINS UNIVERSITY-SCHOOL OF MEDICINE
Baltimore, Md.

CARL V. MOORE, M.D.
Professor of Medicine
WASHINGTON UNIVERSITY, SCHOOL OF MEDICINE
St. Louis, Mo.

CHARLES A. RAGAN, M.D.
Chairman, Department of Medicine
COLLEGE OF PHYSICIANS & SURGEONS OF COLUMBIA UNIVERSITY
New York, N.Y.

DeWITT STETTEN, JR., M.D.
Director
NATIONAL INSTITUTE OF GENERAL MEDICAL SCIENCES
Bethesda, Md.

GEORGE W. THORN, M.D.
Professor of Medicine
HARVARD MEDICAL SCHOOL
Boston, Mass.

CONSULTING EDITORS

J. A. ABILDSKOV, M.D., Salt Lake City, Utah
ROBERT L. ABRAMS, M.D., Brooklyn, N.Y.
HELEN M. ANDERSON, M.D., New York, N.Y.
RONALD A. ARKY, M.D., Boston, Mass.
STEPHEN M. AYRES, M.D., New York, N.Y.
MORTIMER E. BADER, M.D., New York, N.Y.
RICHARD A. BADER, M.D., New York, N.Y.
FREDERIC C. BARTTER, M.D., Bethesda, Md.
E. LOVELL BECKER, M.D., New York, N.Y.
G. E. BURCH, M.D., NEW ORLEANS, La.
CHARLES L. CHRISTIAN, M.D., New York, N.Y.
RICHARD S. CRAMPTON, M.D., Charlottesville, Va.
ANTHONY N. DAMATO, M.D., Staten Island, N.Y.
CHARLES S. DAVIDSON, M.D. Boston, Mass.
VINCENT P. DOLE, M.D., New York, N.Y.
ROBERT M. DONALDSON, JR., M.D., Boston, Mass.
CHARLES FISCH, M.D., Indianapolis, Ind.
DONALD S. FREDRICKSON, M.D. Bethesda, Md
NANCY E. GARY, M.D., New York, N.Y.
RICHARD GORLIN, M.D., Boston, Mass.
DAVID GROB, M.D., Brooklyn, N.Y.
PHILIP H. HENNEMAN, M.D., New York, N.Y.
HALSTEAD HOLMAN, M.D., Stanford, Calif.
A. GREGORY JAMESON, M.D., New York, N.Y.
ROGER W. JELLIFFE, M.D., Los Angeles, Calf.
ARNOLD M. KATZ, M.D., New York, N.Y.
RICHARD J. KENNEDY, M.D., New York, N.Y.
CALVIN M. KUNIN, M.D., Madison, Wis.
HENRY G. KUNKEL, M.D., New York, N.Y.
CARROLL M. LEEVY, M.D., Newark, N.J.
IRVING M. LONDON, M.D., Cambridge, Mass.
DONALD B. LOURIA, M.D., Newark, N.J.
JOHN F. MAHER, M.D., Columbia, Mo.
JAMES C. MELBY, M.D., Boston, Mass
JOSEPH NEWALL, M.D., New York, N.Y.
CARL M. PEARSON, M.D., Los Angeles, Calif.
LOUISE E. PHILLIPS, Ph.D., New York, N.Y.
J. E. RALL, M.D., Bethesda, Md.
HELEN M. RANNEY, M.D., Buffalo, N.Y.
ALBERT L. RUBIN, M.D., New York, N.Y.
ARTHUR A. SASAHARA, M.D., West Roxbury, Mass.
LEONARD SCHERLIS, M.D., Baltimore, Md.
JULIAN B. SCHORR, M.D., Bronx, N.Y.
DONALD W. SELDIN, M.D., Dallas, Tex.
LLOYD H. SMITH, JR., M.D., San Francisco, Calif.
FRANK H. TYLER, M.D., Salt Lake City, Utah
MAX HARRY WEIL, M.D., Los Angeles, Calif.
ARNOLD M. WEISSLER, M.D., Detroit, Mich.
LOUIS G. WELT, M.D., Chapel Hill, N.C.
LAWRENCE E. YOUNG, M.D. Rochester, N.Y.

DUN • DONNELLEY PUBLISHING CORPORATION
666 Fifth Avenue, New York, New York 10019

Copyright © 1972

All rights reserved. No parts of the contents of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording or by any information storage retrieval system, without the written permission of the copyright owner.

Printed in the United States of America

CONTENTS OF VOLUME 53

JULY

Pathophysiologic Aspects of Sickle Cell Anemia
Clement A. Finch 1

Right-Sided Valvular Infective Endocarditis. A Clinicopathologic Study of Twelve Necropsy Patients
William C. Roberts, Neil A. Buchbinder 7

Left-Sided Valvular Active Infective Endocarditis. A Study of Forty-Five Necropsy Patients
Neil A. Buchbinder, William C. Roberts 20

Clinical and Diagnostic Features of Tuberculous Arthritis
Steven Berney, Michael Goldstein, Frederic Bishko 36

Effect of Combined Therapy with Sodium Fluoride, Vitamin D and Calcium in Osteoporosis
Jenifer Jowsey, B. Lawrence Riggs, Patrick J. Kelly, David L. Hoffman 43

Familial Pulmonary Hypertension and Multiple Abnormalities of Large Systemic Arteries in Osler's Disease
Erik Trell, Bengt W. Johansson, Folke Linell, Jan Ripa 50

Atrial Pacing in Coronary Artery Disease
Joseph W. Linhart 64

Nephrotoxicity of Amphotericin B, with Emphasis on Changes in Tubular Function
Janis L. Burgess, Robert Birchall 77

Subdural Empyema
J. Donald Coonrod, Peter E. Dans 85

The Prostaglandins. Biochemical Physiologic and Clinical Considerations
Charles B. Higgins, Eugene Braunwald 92

Valvular Heart Disease and Unexplained Gastrointestinal Hemorrhage (Clinicopathologic Conference) 113

Pickwickian Syndrome and Endocardial Fibroelastosis. A Possible Pathogenetic Correlation
Minoru Suzuki 123

Acrocephalosyndactyly. Report of a Case, with Review of the Literature
Max B. Rubin, Donald J. Pirozzi, Charles L. Heaton 127

AUGUST

Extrinsic Allergic Pneumonias
David P. Nicholson 131

Post-Traumatic Renal Failure in Military Personnel in Southeast Asia. Experience at Clark USAF Hospital, Republic of the Philippines
Robert E. Lordon, John R. Burton 137

A Morphologic Study on the Occurrence and Distribution of Structures Resembling Viral Nucleocapsids in Collagen Diseases
Ferenç Györkey, Joseph G. Sinkovics, K. W. Min, Phyllis Györkey 148

Reduction of Toxicity of Corticosteroid Therapy After Renal Transplantation
R. R. Siegel, R. G. Luke, A. A. Hellebusch 159

Glomerular Abnormalities in Nonsystemic Diseases. Relationship Between Findings by Light Microscopy and Immunofluorescence in 433 Renal Biopsy Specimens
Liliane Morel-Maroger, Anthony Leathem, Gabriel Richet 170

Detection of Humoral and Cell-Mediated Immunity to Kidney Basement Membranes in Human Renal Diseases
P. Mahieu, M. Dardenne, J. F. Bach 185

Pseudoeosinophilia, Eosinophilic Endocarditis and Eosinophilic Leukemia
L. T. Yam, C. Y. Li, T. F. Necheles, I. Katayama 193

Down's Syndrome and Acute Leukemia: Myeloblastic or Lymphoblastic? Report of Forty-Three Cases and Review of the Literature
Fred Rosner, Stanley L. Lee, For Acute Leukemia Group B 203

The Neurotoxicity of Alkyl Mercury Compounds
Loring G. Dales 219

A Thirty-Eight Year Old Woman with Overwhelming Sepsis (Clinicopathologic Conference) 233

Angiographic and Clinicophysiologic Investigation of a Case of Polyarteritis Nodosa
E. Tore G. Leonhardt, Heino Jakobson, O. Torsten A. Ringqvist 242

Ludwig's Angina. Case Report, with Review of Bacteriology and Current Therapy
Burt R. Meyers, William Lawson, Shalom Z. Hirschman 257

SEPTEMBER

Vitamin K and Warfarin. Metabolism, Function and Interaction
Ian L. Woolf, Bernard M. Babior 261

A Clinical Study of Bubonic Plague. Observations of the 1970 Vietnam Epidemic with Emphasis on Coagulation Studies, Skin Histology and Electrocardiograms
Thomas Butler 268

Zinc Deficiency in Man. The Shiraz Experiment
James A. Halsted, Hossain A. Ronaghy, Parichehr Abadi, Mansour Haghshenass, G. H. Amirhakemi, Russel M. Barakat, John G. Reinhold 277

Computer-Based Consultation. Electrolyte and Acid-Base Disorders
Howard L. Bleich 285

Paradoxical Embolism. Diagnosis During Life
Steven G. Meister, William Grossman, Lewis Dexter, James E. Dalen 292

Plasma Lipoproteins, Glucose Tolerance and Insulin Response in Primary Gout
Eckehart Wiedemann, Herbert G. Rose, Ernest Schwartz 299

Bacterial Infection in Renal Homotransplant Recipients. A Study of Fifty-Three Bacteremic Episodes
Richard L. Myerowitz, Antone A. Medeiros, Thomas F. O'Brien 308

The Wide Spectrum of Cryptococcal Infections
Jerry L. Lewis, Sergio Rabinovich 315

A Clinical Comparison of Amebic and Pyogenic Abscess of the Liver in Sixty-Six Patients
Galen L. Barbour, Kerrison Juniper, Jr. 323

Chronic Relapsing Pancreatitis with Cardiac and Renal Disease (Clinicopathologic Conference) 335

Conduction Disturbances and Pacemaker Failure in Loffler's Endomyocarditis
Albert E. Raizner, Mark E. Silverman, William C. Waters, III 343

Eosinophilia Terminating in Myeloblastoma
M. Eric Gershwin, Luis Felipe Fajardo, Marc Gurwith, Jon C. Kosek 348

The Eaton-Lambert Syndrome and Autoimmune Disorders
Ludwig Gutmann, Thomas W. Crosby, Masaharu Takamori, James D. Martin 354

Systemic Venular Insufficiency
Donato Alarcón-Segovia, Alvaro Mayorga-Cortés 357

Hypouricemia Due to Isolated Renal Tubular Defect. Dalmation Dog Mutation in Man
Martin L. Greene, Robert Marcus, G. D. Aurbach, Ezra S. Kazam, J. Edwin Seegmiller 361

Salt-Losing Syndromes Following Renal Transplantation
Herbert J. Kramer, Ralph Goldman, Harvey C. Gonick 368

Apparent Cure of Cushing's Disease by Bilateral Adrenalectomy and Autotransplantation
Norman M. Kaplan, G. Tom Shires 377

Unresectable Pheochromocytoma in Pregnancy. Pharmacology and Biochemistry
J. Simanis, J. R. Amerson, A. E. Hendee, A. H. Anton 381

Knotting of Two Central Venous Monitoring Catheters
Satinder Swaroop 386

OCTOBER

Human Prolactin. An Ancient Molecule Provides New Insights for Clinical Medicine
Roger W. Turkington 389

Cobalt-Beer Cardiomyopathy. A Clinical and Pathologic Study of Twenty-Eight Cases
Carl S. Alexander 395

Direct Measurement of Plasma Proinsulin in Normal and Diabetic Subjects
William C. Duckworth, Abbas E. Kitabchi, with the assistance of Martha Heinemann 418

Pneumocystis Carinii Pneumonia. A Clinicopathologic Study of Twenty Patients with Neoplastic Diseases
Peter Rosen, Donald Armstrong, Corazon Ramos 428

"Antigenic" Disparity Between Cultured Lymphoid Cells and Autologous Lymphocytes
Tin Han, Joseph E. Sokal, George E. Moore 437

Acquired Subvalvular Right Ventricular Outflow Obstruction in Patients with Ventricular Septal Defect
Richard L. Shepherd, D. Luke Glancy, Richard B. Jaffe, Joseph K. Perloff, Stephen E. Epstein 446

Salivary Gland Immunoglobulin and Rheumatoid Factor Synthesis in Sjogren's Syndrome. Natural History and Response to Treatment
Larry G. Anderson, Norman A. Cummings, Richard Asofsky, Martha B. Hylton, Thomas M. Tarpley, Jr., Thomas B. Tomasi, Jr., Robert O. Wolf, Gerald L. Schall, Norman Talal 456

Aortic Insufficiency in Five Patients with Reiter's Syndrome. A Detailed Clinical and Pathologic Study
Harold E. Paulus, Carl M. Pearson, William Pitts, Jr. 464

Thirty-Two Cases of Interventricular Septal Defect and Aortic Insufficiency. Clinical, Hemodynamic and Surgical Features
Stephen P. Glasser, Melvin D. Cheitlin, Richard J. McCarty, John H. Haas, Robert J. Hall, Charles E. Mullins 473

Performance of the Left Ventricle
Jere H. Mitchell, Lloyd L. Hefner, R. Grier Monroe 481

Amyloidosis (Clinicopathologic Conference) 495

Severe Accidental Hypothermia with Survival After Rapid Rewarming. Case Report, Pathophysiology and Review of the Literature
W. Delano Meriwether, Richard M. Goodman 505

Veno-Occlusive Disease of the Liver. A Case from Venezuela
Pedro J. Grases, Simon Beker G. 511

Latent Cutaneous Porphyria, Type PCT, in a Caucasian Woman
Kurt Norregaard Christensen, Torben K. With 517

Studies in a Case of Cushing's Syndrome Due to an ACTH-Producing Thymic Tumour
B. L. Pimstone, C. J. Uys, L. Vogelpoel 521

NOVEMBER

SYMPOSIUM ON THE ADRENAL CORTEX

Foreword
George W. Thorn 529

The Development of Steroidogenesis
Dorothy B. Villee 533

Subcellular Mechanisms in the Action of Adrenal Steroids
David Feldman, John W. Funder, Isidore S. Edelman 545

The Tissue Effects of Mineralocorticoids
Patrick J. Mulrow, Barr H. Forman 561

Tissue Effects of Glucocorticoids
John D. Baxter, Peter H. Forsham 573

Regulation of Glucocorticoid Release
Don H. Nelson 590

Aldosterone Biosynthesis. Interrelationship of Regulatory Factors
Gordon H. Williams, Robert G. Dluhy 595

Adrenal Androgens in Man
Claude J. Migeon 606

The Regulation of Aldosterone Secretion in Primary Aldosteronism
John P. Cain, Michael L. Tuck, Gordon H. Williams, Robert G. Dluhy, Stephen H. Rosenoff 627

Pathogenesis of Glucocorticoid Disorders
Grant W. Liddle 638

The Control of Aldosterone Secretion in Normal and Hypertensive Man: Abnormal Renin-Aldosterone Patterns in Low Renin Hypertension
John H. Laragh, Jean Sealey, Hans R. Brunner 649

Laboratory Evaluation of Disorders of the Adrenal Cortex
Frank H. Tyler, C. D. West 664

Clinical Therapeutics of Adrenal Disorders
George W. Thorn, David P. Lauler 673

Waldenström's Macroglobulinemia. Report of a Case with Pulmonary Involvement and Improvement in Pulmonary Symptoms Only Following Chlorambucil Therapy
S. Frederick Rabiner, Stephen N. Aprill, David B. Radner 685

A New Case of Xanthinuria
Leif B. Sorensen, Joseph T. Tesar, Michael H. Ellman, John Colwell 690

Oxyphenbutazone and Aplastic Anemia
Robert M. Pilewski, Lawrence D. Ellis, Joseph D. Sapira, Raymond Mark 693

The Concurrence of Osteitis Deformans and Acoustic Neurinoma
Larry K. Page 697

DECEMBER

Molecular Nephrology
Leonard B. Berman, R. P. Misra 701

Hepatic Blood Flow in Alcoholic Liver Disease Measured by an Indicator Dilution Technic
Jay N. Cohn, Ibrahim M. Khatri, Roberto J. Groszmann, Bernardo Kotelanski 704

Quantitation of Portasystemic Shunting from the Splenic and Mesenteric Beds in Alcoholic Liver Disease
Roberto Groszmann, Bernardo Kotelanski, Jay N. Cohn, Ibrahim M. Khatri 715

Histaminase Activity: A Biochemical Marker for Medullary Carcinoma of the Thyroid
Stephen B. Baylin, Michael A. Beaven, L. Maximilian Buja, Harry R. Keiser 723

Correction of the Platelet Abnormality in von Willebrand's Disease by Cryoprecipitate
Harvey J. Weiss, John Rogers 734

CONTENTS

Variant Angina. Case Reports and Critique
Richard S. Cosby, John A. Giddings, Jackie R. See, Mary Mayo 739

The Effect of a Pressurized Environment (Hyperbaric Chamber) on Pulmonary Emphysema
E. Leslie Chusid, Grace G. Maher, Arnauld Nicogossian, Albert Miller, Alvin Teirstein, Richard A. Bader, Mortimer E. Bader, Julius Jacobson, II 743

Megaloblastic Anemia Associated with Erythroid Hypoplasia
John F. Pezzimenti, John Lindenbaum 748

Pulmonary Involvement in Fabry's Disease: A Reappraisal. Follow-Up of a San Diego Kindred and Review of the Literature
Ernest E. Bartimmo, Jr., Michel Guisan, Kenneth M. Moser 755

Generalized Seizures Following Isoniazid Therapy for Tuberculosis in a Patient with Uremia (Clinicopathologic Conference) 765

Unruptured Aneurysm of the Sinus of Valsalva Producing Right Ventricular Outflow Obstruction
Richard E. Kerber, J. Douglas Ridges, Joseph P. Kriss, James F. Silverman, Edward T. Anderson, Donald C. Harrison 775

Abnormal Iron and Water Metabolism in Acute Intermittent Porphyria with New Morphologic Findings
Jeffrey A. Stein, Franklin D. Curl, Marius Valsamis, Donald P. Tschudy 784

Immune Thrombocytopenia Due to a Metabolite of Para-Aminosalicylic Acid
Eric V. Eisner, Kathleen Kasper 790

Pheochromocytoma of the Urinary Bladder, with Inconclusive Chemical and Pharmacologic Tests
M. G. Bogaert, A. Vermeulen 797

Factitious Hyposthenuria
Joseph D. Sapira 801

Gigantism with Hypopituitarism. A Reevaluation
Gerhard Baumann, John P. Cain, Joseph F. Dingman 805

Author Index 811

Subject Index 813